Zoological Record

Vol. 91, Sect. 11, 1954

TRILOBITA

(1953)

COMPILED BY

J. T. TEMPLE, M.A., Ph.D.

LONDON

PUBLISHED BY

THE ZOOLOGICAL SOCIETY OF LONDON

PRICE THREE SHILLINGS

March, 1957

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II. TRILOBITA

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CONTENTS

	PAGE
I. Titles	1
II. Subject Index	5
III. Systematic Index	12

I.—TITLES

1.—Adams, P. J. & **Cowie,** J. W. A geological reconnaissance of the region around the inner part of Danmarks Fjord, Northeast Greenland. Medd. Grønland **111** 7 1953 : 1–24 maps text-figs.

2.—[Balaschova, E. A. & **Balaschov,** Z. G.] [New discovery of upper Famennian faunas in Kazakhstan]. C.R. Acad. Sci. U.R.S.S. NS **92** 2 1953 : 413–416 1 table. [In Russian.]

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4.—Bass, N. W. & **Northrop,** S. A. Dotsero and Manitou formations, White River Plateau, Colorado. . . . Bull. Amer. Ass. Petrol. Geol. **37** 5 1953 : 889–912 text-figs. [Trilobita det. A. R. Palmer.]

5.—Berg, R. R. Franconian trilobites from Minnesota and Wisconsin. J. Paleont. **27** 4 1953 : 553–568 pls. lix–lxi 2 text-figs.

6.—Born, A. Informe paleontológico-estratigráfico, *in* Henke, W., Aportación a la Geología de Sierra Morena. . . Publ. [alem.] extran. Geol. Esp. **7** 2 1953 : 95–99. [Translation by B. Meléndez of the article originally published in Abh. senckenb. naturf. Ges. **39** 2 1926.]

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Cardona, J. Moreno *see* Moreno Cardona, J.

9.—Charlesworth, J. K. The Geology of Ireland : an Introduction. Oliver & Boyd, Edinburgh 1953 276 pp. 21 pls. 99 text-figs. [Trilobita text-fig. 11.]

10.—Choubert, G. Introduction stratigraphique, *in* Contribution à l'étude du Cambrien inférieur et du Précambrien III de l'Anti-Atlas marocain. Notes Serv. Min. Maroc. No. 103 1952 [1953] : 17–39 text-figs. 1–4.

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Cloud, P. E. *see* Barnes, V. E.

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Cowie, J. W. *see* Adams, P. J.

13.—Destombes, J. P. Stratigraphie des terrains primaires de la Haute-Garonne. C.R. XIX Congr. géol. int. Alger 1952 **2** 1953 : 107–129 2 text-figs. [Trilobita p. 121 det. P. Hupé.]

14.—Dresnay, R. du & **Hupé,** P. La série cambrienne du Jebel Tibalicine (Confins algéro-marocains du Sud). C.R. Acad. Sci., Paris **236** 10 1953 : 1061–1063.

Duncan, H. *see* Barnes, V. E.

15.—Erben, H. K. Über einige Otarionidae (Tril.) aus dem Mittel-Devon der Eifel. Senckenbergiana **34** 1–3 1953 : 73–80 text-figs. 1–3.

16.—Evitt, W. R. Observations on the trilobite *Ceraurus*. J. Paleont. **27** 1 1953 : 33–48 pls. v–viii text-figs. 1A-C.

17.—Evitt, W. R. & **Whittington,** H. B. The exoskeleton of *Flexicalymene* (Trilobita). J. Paleont. **27** 1 1953 : 49–55 pls. ix, x 1 text-fig.

18.—Fisher, D. W. Additions to the Stratigraphy and Paleontology of the Lower Clinton in Western New York. Bull. Buffalo Soc. nat. Sci. **21** 2 1953 : 26–36 pls. x, xi 1 text-fig.

19.—Follot, J. Le Carbonifère inférieur du Sahara central. C.R. XIX Congr. géol. int. Alger 1952 **2** 1953 : 11–28 2 text-figs.

20.—Garretson, M. W. Color in Trilobites of Trenton age. Science **117** 3027 1953 : 17.

21.—Gill, E. D. Relationship of the Australasian and North African Lower Devonian faunas. C.R. XIX Congr. géol. int. Alger 1952 **2** 1953 : 87–92.

22.—Glinski, A. Die Freilinger Schichten der Rohrer Mulde (Devon, Eifel). Ein Beitrag zur Stratigraphie des unteren Givetiums der nördlichen Eifelmulden. Senckenbergiana **34** 1–3 1953 : 149–162 3 tables.

23.—Hede, J. E. Boring through Middle Ordovician-Upper Cambrian strata in the Fågelsång district, Scania (Sweden). 1. Succession encountered in the boring. Lunds Univ. Årsskr. NF [2] **46** 7 1951 : 1–84 pls.

24.—Hintze, L. F. Lower Ordovician trilobites from western Utah and eastern Nevada. Bull. Utah geol. min. Surv. **48** 1952 [1953] : i–vi 1–249 pls. i–xxviii 2 text-figs. 14 tables.

25.—Holtedahl, O. Norges Geologi I. Norg. geol. Unders. No. 164 1953 : i–xi 1–583 261 text-figs. [Trilobita text-figs. 69, 70, 73, 74, 76, 81.]

26.—Hupé, P. Sur les limites de l'Infracambrien, spécialement au Maroc. C.R. Acad. Sci., Paris **236** 1 1953 : 103–105.

27.—Hupé, P. Quelques remarques sur la croissance et la segmentation des Trilobites. Bull. Soc. géol. Fr. (6) **3** 1–3 1953 : 3–11 text-figs. 1–4.

28.—Hupé, P. Classe des Trilobites, *in* J. Piveteau, Traité de Paléontologie **3** Masson et Cie, Paris 1953 [April] : 44–246 text-figs. 1–140.

29.—Hupé, P. Contribution à l'étude des Trilobites du Maroc, *in* Contribution à l'étude du Cambrien inférieur et du Précambrien III de l'Anti-Atlas marocain. Notes Serv. Min. Maroc No. 103 1952 [May-June 1953] : 41–296 pls. i–xi text-figs. 5–71 tables.

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Hupé, P. *see* Choubert, G.

Hupé, P. *see* Dresnay, R. du

31.—Jaanusson, V. Über die Fauna des oberordovizischen Slandrom-Kalksteines im Siljan-Gebiet, Dalarna. Geol. Fören. Stockh. Förh. **75** 1 1953 : 97–105 text-figs. 1–4.

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Linares, A. *see* Moreno Cardona, J.

46.—Lindström, M. On the Lower Chasmops Beds in the Fågelsång District (Scania). Geol. Fören. Stockh. Förh. **75** 2 1953 : 125–148 pl. i 6 text-figs.

47.—Lochman, C. Corrections to trilobites in " Cambrian Stratigraphy and Paleontology near Caborca, Northwestern Sonora, Mexico ". J. Paleont. **27** 3 1953 : 486–488.

48.—Lochman, C. Notes on Cambrian trilobites—homonyms and synonyms. J. Paleont. **27** 6 1953 : 886–889.

49.—Lochman, C. Analysis and discussion of nine Cambrian trilobite families. J. Paleont. **27** 6 1953 : 889–896 text-fig. 1.

Martna, J. *see* Jaanusson, V.

50. — Moreno Cardona, J. & **Linares,** A. Hallazgos de Trilobites en Sierra Nevada (Granada). (Nota preliminar). Bol. Soc. esp. Hist. nat. [Geol.] **49** 1–3 1951 : 127–129 pl. xii.

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Northrop, S. A. *see* Bass, N. W.

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Palmer, A. R. *see* Barnes, V. E.

Palmer, A. R. *see* Bass, N. W.

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Piveteau, J. *see* Hupé, P.

55.—Přibyl, A. On the Carboniferous Trilobites of Moravia-Silesia. Bull. int. Acad. Prague **51** (for 1950) 1953 : 209–230 pls. i, ii.

56.—Raw, F. The external morphology of the trilobite. J. Paleont. **27** 1 1953 : 82–129 text-figs. 1–7 tables.

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59.—Ross, R. J., *Jr.* Additional Garden City (Early Ordovician) trilobites. J. Paleont. **27** 5 1953 : 633–646 pls. lxii–lxiv text-fig. 1 [4 figs.].

60.—Rusconi, C. Lista de agnóstidose hiolites del Cámbrico de Mendoza. An. Soc. cient. argent. **156** 1 1953 : 3-9.

61.—Rusconi, C. Trilobitas ordovícicos y cámbricos de Mendoza. Bol. paleont. B. Aires No. 25 1953 : 1–8 text-figs. 1–10.

62.—Rusconi, C. Nuevos Trilobitas cámbricos de la quebrada de la Cruz. Bol. paleont. B. Aires No. 27 1953 : 1–8 text-figs. 1–10.

63.—Rusconi, C. Siete especies de Trilobitas del Cambrico de la Quebradita Oblicua, sud del cerro Aspero. Bol. paleont. B. Aires No. 28 1953 : 1–4 text-figs. 1–8.

64.—Sargent, J. D. A new trilobite from the Onondaga Limestone of New York. Bull. Buffalo Soc. nat. Sci. **21** 2 1953 : 91–93 pls. xxviii, xxix.

65.—Shaw, A. B. Paleontology of northwestern Vermont III. Miscellaneous Cambrian fossils. J. Paleont. **27** 1 1953 : 137–146 pl. xviii table text-figs.

66.—Shrock, R. R. & **Twenhofel,** W. H. Class Trilobita, *in* Principles of Invertebrate Paleontology 2nd ed. McGraw-Hill, New York 1953 : 579–604 frontispiece text-figs. 13.26–13.39.

67.—Sinclair, G. W. The type species of *Aculeodiscus* and the status of *Dawsonia* (Cambrian trilobites). J. Paleont. **27** 3 1953 : 490–491.

68.—Sinclair, G. W. Middle Ordovician Beds in the Saguenay Valley, Quebec. Amer. J. Sci. **251** 12 1953 : 841–854 2 maps.

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72.—Stäuble, A. Otarion laurentinum, sp. nov. avec une synopsis des Otarionidae. Nat. canad. **80** 12 1953 : 277–306 text-figs. 1–9.

Stephens, J. V. *see* Stubblefield, C. J.

73.—Størmer, L. The Middle Ordovician of the Oslo Region, Norway 1. Introduction to Stratigraphy. Norsk geol. Tidsskr. **31** 1953 : 37–141 pls. i–vi 16 text-figs.

74.—Stubblefield, C. J. Palaeontology, *in* J. V. Stephens et al., Geology of the Country between Bradford and Skipton. Mem. geol. Surv. U.K. 1953 : 89–110.

75.—Tasch, P. Taxonomy of the trilobite genera *Lonchocephalus* and *Welleraspis*. J. Paleont. **27** 5 1953 : 745–748.

76.—Temple, J. T. The stratigraphy and trilobite faunas of the upper Ashgillian rocks of Britain and Scandinavia. Abstr. Diss. Univ. Camb. **1950–51** 1953 : 102.

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Twenhofel, W. H. *see* Shrock, R. R.

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80.—Whittard, W. F. et al. Report of Summer Field Meeting in South Shropshire, 1952. Proc. Geol. Ass. Lond. **64** 3 1953 : 232–250 + errata slip pl. xi text-fig. 1.

81.—Whittington, H. B. North American Bathyuridae and Leiostegiidae (Trilobita). J. Paleont. **27** 5 1953 : 647–678 pls. lxv–lxix text-figs. 1–5.

82.—Whittington, H. B. A new Ordovician trilobite from Florida. Breviora No. 17 1953 : 1–6 pl. 1.

Whittington, H. B. *see* Evitt, W. R.

83.—Willard, B. Color in Trilobites. Science **117** 3031 1953 : 115.

84.—Williams, A. The geology of the Llandeilo district, Carmarthenshire. Quart. J. geol. Soc. Lond. **108** 2 (for 1952) 1953 : 177–205 pl. ix 7 text-figs.

II.—SUBJECT INDEX

GENERAL LITERATURE AND HISTORY

Nomenclature (principles of).—Agreement with view that a fossil species is invalid unless figured, JAANUSSON **32;** Undesirability of courtesy references, HINTZE **24;** Publication in synonymies, SINCLAIR **67.**

General works.—HUPÉ **28,** RAW **56;** Geology of Norway, HOLTEDAHL **25;** Geology of Ireland, CHARLESWORTH **9;** Records of Irish trilobites, LAMONT **45;** Discussion of several Cambrian families, LOCHMAN **49;** Scandinavian Asaphidae, JAANUSSON **32, 33;** Bathyuridae, WHITTINGTON **81;** Kainellidae, KOBAYASHI **40.**

Text book.—Invertebrate Palaeontology, SHROCK & TWENHOFEL **66.**

Abstracts. — SINGLETON **69,** TEMPLE **76.**

Translations.—BORN **6, 7,** KEGEL **37,** R. & E. RICHTER **58.**

Check Lists.—Cambrian Agnostids of Mendoza, RUSCONI **60;** Middle Cambrian non-Agnostidean trilobites of Sweden, WESTERGÅRD **79;** Genera and species of Kainellidae, KOBAYASHI **40.**

Review. — Of Charlesworth 1953, LAMONT **45.**

Preservation. — Examples of trilobites in metamorphic rocks, BUCHER **8;** In calcareous specimens canals through test may be filled with pyrite; silicification (by replacement) may affect only the surfaces of test and preserves only the larger canals, EVITT & WHITTINGTON **17.**

Affinities of Group.—Discussion of relevant characters, reaffirmation of probable affinities with Antennata, HUPÉ **28;** General discussion and suggested derivation from polychaets similar to Polynoidae, RAW **56.**

Revision of Nomenclature.—Proposal to designate *Aphelaspis walcotti* Resser 1938 as type of *Aphelaspis* Resser 1935, PALMER **53;** *Pseudosaukia* Kobayashi 1952 *non* Rasetti 1944 renamed *Jeholaspis*, KOBAYASHI **41;** *Ligometopus* Delo 1940 validity doubtful, COOPER **12;** *Kendallia* and *Maustonia* Raasch 1939 provisionally considered valid, BERG **5;** *Platycolpus* Raymond 1913 *non* Donald 1900 renamed *Rasettia*, *Calyptomma* Resser 1942 *non* Tattersall 1909 renamed *Princetonella* ; *Dictyella* Kobayashi 1933 a subjective synonym of *Xenostegium* Walcott 1925, *Protillaenus* Raymond 1937 of *Blountia* (*Homodictya*) R. 1937, *Ucebia* Walcott 1925 of *Kingstonia* W. 1925, *Tatonaspis* Kobayashi 1935 and *Yukonaspis* K. 1936 of *Macelloura* Resser 1935, *Piedmontia* Resser 1938 and probably *Holstonia* R. 1938 of *Bonneterrina* Lochman 1936, *Sneed-*

villia R. 1938 of *Crepicephalus* Owen 1852, *Mesocrepicephalus* Kobayashi 1935 of *Crepicephalina* Resser & Endo 1935, *Pseudolisania* Kobayashi 1935 and *Bernicella* Frederickson 1949 of *Cheilocephalus* Berkey 1898, *Irvingellina* Kobayashi 1936 and *Parairvingella* K. 1938 of *Irvingella* Ulrich & Resser 1925, *Schmidtaspis* Kobayashi 1944 of *Dartonaspis* Miller 1936, *Métisia* Resser 1937 of *Armonia* Walcott 1925, *Punctularia* Raymond 1937 of *Aposolenopleura* R. 1937, *Stenelymus* Raymond 1937 of *Genevievella* Lochman 1936, *Sulcocephalus* Wilson 1948 of *Berkeia* Resser 1937, *Plataspella* Wilson 1949 of *Iddingsia* Walcott 1925, *Enontioura* Resser 1942 of *Plethometopus* Ulrich 1931, *Stenocombus* Raymond 1937 of *Blountia* Walcott 1916, *Howellaspis* Lochman & Denson 1944 of *Bolaspidella* Resser 1937, *Asioptychaspis* Kobayashi 1933 and *Fengshania* Sun 1935 of *Ptychaspis* Hall 1863; *Blountina* Lochman 1944 not a subjective synonym of *Protillaenus* Raymond 1937, nor *Ithycephalus* Resser 1938 of *Kingstonia* Walcott 1925, nor *Dartonaspis* Miller 1936 of *Chariocephalus* Hall 1863, nor *Changia* Sun 1924 of *Quadraticephalus* S. 1924, LOCHMAN **48**; *Delgadodiscus* Kobayashi 1935 a synonym of *Delgadoia* Vogdes 1917, *Pagetiellus* Lermontova 1940 of *Alemtejoia* Kobayashi 1943, *Paratollaspis* K. 1943 of *Erbia* L. 1940, *Bicaspis* Resser 1938 of *Protypus* Walcott 1886, *Neolenus* Matthew 1899 of *Olenoides* Meek 1877, *Notasaphus* Gregory 1903 of *Kootenia* Walcott 1908, *Hesperaspis* Stoyanow 1936 of *Arapahoia* Miller 1936, *Pseudoptychoparia* Ting 1936 of *Yunnanocephalus* Kobayashi 1936, *Billingsaspis* Resser 1935 tentatively of *Bolaspis* R. 1935, *Stigmametopus* Rasetti 1944 of *Idiomesus* Raymond 1924, *Whitfieldina* Resser 1937 of *Norwoodia* Walcott 1916, *Palaeocrepicephalus* Kobayashi 1935 of *Kochaspis* Resser 1935, *Llanoaspis* Lochman 1938 of *Genevievella* L. 1936, *Millardia* Walcott 1916 of *Menomonia* W. 1916, *Asioptychaspis* Kobayashi 1935 of *Ptychaspis* Hall 1863, *Miquelina* Thoral 1935 of *Taihungshania* Sun 1931, *Highgatea* Raymond 1937 of *Loganellus* Devine 1863, *Ptyocephalus* Whittington 1948 of *Kirkella* Kobayashi 1942, *Metopolichas* Gürich 1901 and *Autolichas* Reed 1923 of *Lichas* Dalman 1827, *Homolichas* Schmidt 1885 and *Cypholichas* Phleger 1936 of *Conolichas* Dames 1877, *Hoplolichoides* and *Cyranolichas* P. 1936 of *Hoplolichas* D. 1877, *Kerakephalichas* P. 1936 of *Tetralichas* P. 1936, *Metalichas* Reed 1902 of *Platylichas* Gürich 1901, *Corydocephalus* Hawle & Corda 1847 and *Plusiarges* Gürich of *Trochurus* Beyrich 1845, *Dartonaspis* Miller 1936 of *Chariocephalus* Hall 1863, *Dimastocephalus* Stubblefield 1950 of *Carolinites* Kobayashi 1940, *Koenigia* Salter 1865 of *Homalonotus* König 1825, *Trigryops* Kobayashi 1940 of *Dionide* Barrande 1847; Avoninidae Lochman 1936 and Cephalocoeliidae Raymond 1937 synonyms of Raymondinidae Clark 1924, Kainellidae Ulrich & Resser 1930 of Richardsonellidae Raymond 1924, Pagodidae Kobayashi 1935 *p. p.* of Leiostegiidae Bradley 1925, Eobronteidae Sinclair 1949 of Scutellidae R. & E. Richter 1925, Cryptolithidae Angelin 1854 of Trinucleidae Emmrich 1845, HUPÉ **28**; *Hebediscus* Whitehouse 1936 not accepted as a junior synonym of its supposed larva *Dipharus* Clark 1923, *Fallotia* Hupé 1952 nom. nud. *non* Douvillé 1902 renamed *Fallotaspis*, HUPÉ **29**; *Symphysurinella* & *Symphysuroides* Raymond 1937 subjective synonyms of *Symphysurina* Ulrich 1924, *Giordanella* Bornemann 1891 and *Tsinania* Walcott 1914 possibly also synonymous with *S.*, HINTZE **24**; *Levisaspis* Rasetti 1943 a synonym of *Hardyoides* Kobayashi 1938, SHAW **65**; *Canotagnostus* Rusconi 1951 a subjective synonym of *Huarpagnostus* R. 1951, RUSCONI **60**; *Calyptaulax* Cooper 1930 a subjective synonym of *Homalops* Remelé 1885, JAANUSSON **31**; *Proampyx* Frech 1897 a subjective synonym of *Agraulos* Corda 1847, WESTERGÅRD **79**; *Strotocephalus* Resser 1935 a synonym of *Amecephalus* Walcott 1924, LOCHMAN **47**; *Aculeodiscus* Šnajdr 1950 a synonym of, or an acceptable substitute for, *Dawsonia* Hartt 1868, SINCLAIR **67**; *Acidiphorus* Raymond 1925 and *Bathyurina* Poulsen 1937 may be synonymous with *Goniotelina*

Whittington, WHITTINGTON **81**; *Llanoaspis* Lochman 1938 not a synonym of *Genevievella* L. 1936, LOCHMAN **49**; Specific nomina nuda et dubia, homonyms and synonyms among Asaphids, JAANUSSON **32**.

STRUCTURE

General work.—HUPÉ **28**.

Terminology. — Summary of asaphid terminology, especially cranidial and hypostomal, JAANUSSON **32**; Summary of cryptolithid terminology; introduction of terms *occiput* (for the part of glabella between posterior pair of glabellar furrows and occipital furrow), *cheek-frame* and *fringe-frame*, STÄUBLE **70**; Introduction of term *genal groove* (*rainure génale*) in Otarionidae, STÄUBLE **72**.

Segmentation. — Cephalon taken to comprise (i) prostomial complex represented by hypostome, (ii) peristome represented by rostrum with antennae as appendages, (iii–viii) six "normal segments" represented axially by glabella, each primitively with a pair of simple eyes (replaced by compound eyes) and a pair of biramous appendages, RAW **56**; Størmer's hypothesis of oblique pleural segmental boundaries not accepted, HUPÉ **28**.

Glabella. — Considered to contain primitively six appendage-bearing segments, RAW **56**; Term *hyperglabella* used for fully segmented glabella with (postulated) seven segments; elimination of anterior glabellar lobes in *Acantholoma*; examples chosen from several families to illustrate the trend from a primitively tapering glabella to one enlarged in front, HUPÉ **28**.

Pre-glabellar bosses or depressions. —Taken to represent part of a *schizoglabella*, distribution in Redlichioidae, Ptychoparioidae and Solenopleuroidae analysed, HUPÉ **28**.

Parafrontal band continuing part of the ocular ridge around the front of the glabella described in some Olenelloidae and Redlichioidae, interpreted as representing usually the "x segment", HUPÉ **29**.

Anterior pits in axial furrows of Asaphids considered equivalent to those of other groups and taken to mark ends of pre-glabellar furrows, JAANUSSON **32**; In *Leiostegium* a second pair of pits in the axial furrows behind the anterior pits, HINTZE **24**.

Eyes. — Compound eyes (primitively long and crescentic) considered to have developed from areolar ornament on the cheeks, and to have replaced six pairs of simple segmental eyes; the compound eyes therefore cut across the segmentation of the cheek, and their connection by an ocular ridge with the frontal lobe of glabella represents merely a secondary innervation from that region, RAW **56**.

Alae of Harpidae etc. considered to represent the pleurae of one or more pre-occipital segments, HUPÉ **28**; Alae of Harpidae and Cryptolithidae considered not homologous, development described in young *Reedolithus*, STÄUBLE **70, 71**.

Cephalic sutures. — Articulation along sutures considered unlikely, HUPÉ **28**.

Facial sutures. — Taken to mark posterior limit of ocular segment, HUPÉ **28**; In spp. of *Fallotaspis* (Olenellid) a raised line which is interpreted as ankylosed anterior facial suture runs back to posterior margin of cephalon within genal spine; ankylosis of sutures in Olenellids considered a secondary and irreversible condition; in Redlichiids evolution from transverse to only slightly pro-divergent anterior f.s.'s, HUPÉ **29**.

Cephalic spines.—Each cephalic segment considered capable of bearing spines; "intergenal" spines of different groups probably developed from various segments (or combinations of segments), HUPÉ **28**; Procranidial, parial and metacranidial spines taken as belonging respectively to the first, coalesced third and fourth, and sixth post-peristomial cephalic segments; distribution compared with that of elytra in polychaet Polynoidae, RAW **56**.

Genal spines. — Spines in Olenelloidae accepted as pro-cranidial, HUPÉ **29**; Spines present in young *Asaphus lepidus*, lost in adult, JAANUSSON **32**.

Rostral plate. — Taken as mesotergite of ocular segment, evolutionary tendency towards reduction in size, HUPÉ **28**; Length (tr.) in Olenellids and Redlichiids related to distance between pre-ocular parts of facial suture; claimed that in Olenellids fusion with the hypostome is a secondary and relatively uncommon condition, HUPÉ **29**; Demonstrated in *Dimeropygiella* where it bears a ventrally directed conical spine; inferred in *Licnocephala*, ROSS **59**; In *Flexicalymene* plate consists of two parts at an angle to each other, the outer interpreted as part of the anterior border of the cephalon, the inner as part of the cephalic doublure, EVITT & WHITTINGTON **17**.

Hypostome. — Form of the margin of the anterior wing analysed in different Asaphids; in *Asaphus* the margin lies against the underside of the anterior part of the axial furrow, JAANUSSON **32**; In *Flexicalymene* serial sections interpreted to suggest that a process of the anterior hypostomal wing rested in a depression on anterior slope of the anterior pit, EVITT & WHITTINGTON **17**; Of *Cybelopsis* described; forked hypostomes developed independently in several [asaphid] lineages in Lower Ordovician, HINTZE **24**.

Hypostomal maculae. — Lindström's interpretation of maculae as visual organs upheld, HUPÉ **28**, RAW **56**.

Metastoma.—Existence considered doubtful, RAW **56**.

Doublure.—Pits on doublure of free cheek of *Symphysurina* considered to be not for the reception of the ends of the thoracic segments, HINTZE **24**.

Thorax.—In Olenellids thorax subdivided into an anterior *prothorax* with normal pleurae (homologous with the thorax of other trilobites), and a posterior *opisthothorax* (or *postthorax*) with reduced pleurae (homologous with the pygidium of other trilobites), the junction between the two parts being marked by the great axial spine, HUPÉ **28**.

Number of segments.—Total number of post-cephalic segments of Polymera remains constant (fluctuating about 15) from Lower Cambrian to Silurian, being usually greatest in forms with tapering glabellas, number of pygidial segments increases during this time, HUPÉ **28**.

Segmental specialisation.—General discussion and comparison with condition in polychaet Polynoidae, introduction of term *merocyclism* for such specialisation, RAW **56**; Distribution of macropleural segments analysed, macropleurality probably indicates position of genital segments; macrospinality may be a secondary sexual character, HUPÉ **28**; Macropleurality (thoracic) in *Grönwallia*, WESTERGÅRD **79**; Macropleurality of 11th thoracic segment in *Resserops* and [?] *Abadiella*, HUPÉ **29**; Axial spine on sixth thoracic segment of *Otarion laurentinum*, STÄUBLE **72**.

Panderian organs.—Function as buttress during enrolment reaffirmed, the "orifices" being not the openings of glands but thin [uncalcified] parts of the test; in *Asaphus cornutus* size of the organs decreases from back to front of the thorax, HUPÉ **28**.

Composition of integument. — Review, VINOGRADOV **78**.

Structure of integument.—Compared with that of *Homarus*, JOHNSON **35**; In *Kirkella* integument is thinner over glabella, HINTZE **24**; Canals of various sizes through the test described in *Flexicalymene* and distribution analysed, larger canals are associated with tubercles, EVITT & WHITTINGTON **17**.

Ornamentation. — Classified into (i) true ornament e.g. granules, tubercles, scrobicules, terraced lines—generally lacking in Cambrian forms, but widespread afterwards even in larval stages; (ii) morphologically significant ornament e.g. occipital tubercles (minimum frequency in Ordovician), occipital spines (maximum frequency in Middle Cambrian followed by decline), cephalic spines, HUPÉ **28**.

Pits on glabella and in preglabellar furrow of *Ceraurus* considered muscle insertions, EVITT **16.**

Tubercles. — In *Flexicalymene* larger canals through test are associated with tubercles, EVITT & WHITTINGTON **17;** "Glabellartuberkel" of Asaphids (and Nileids) not occipital, JAANUSSON **32.**

Spines. — Occipital and pygidial spines of spp. of *Raymondites* considered due to adaptation, not to phylogeronticism, WHITTINGTON **81.**

Appendages. — Suggested that the cephalon bore primitively 6 pairs of post-antennal biramous appendages, of which the two (or even three) anterior pairs may have been much reduced, RAW **56.**

Circulatory system. — Genal ridges of Harpids etc. interpreted as hepatic arteries, HUPÉ **28.**

Alimentary system.—Genal caeca taken to represent several pairs of intestinal diverticula, of which the anterior pair (associated with the ocular ridges) is best developed, HUPÉ **28.**

Musculature. — Discussion with reconstruction of thoracic musculature, HUPÉ **28.**

Sensory organs.—Pits below visual surface of eye stalk in *Asaphus cornutus* considered sensory, HUPÉ **28;** Canals through the test interpreted as loci of sensory hairs, EVITT & WHITTINGTON **17.**

PHYSIOLOGY AND SEX

Enrolment.—Genal angle of cheek and distal parts of pleurae stated to be flexed downwards during spheroidal enrolment, HUPÉ **28.**

Colour.—Pink *Calymene*, GARRETSON **20;** WILLARD **83.**

Sex.—Macropleural thoracic or pygidial segments are probably the genital segments, variability of position of latter in trilobites contrasted with condition in modern arthropod groups, HUPÉ **28;** *Pseudomera* and *Cybelopsis* may be two sexes of one genus, HINTZE **24.**

DEVELOPMENT

Eggs.—Bodies so interpreted by Barrande vary in size with that of the larval (rather than the adult) stages of associated genera and B.'s opinion upheld; position in *Barrandia* suggests cephalic ovaries, HUPÉ **28.**

Ontogeny.—Young stages of *Menoparia*, *Licnocephala* and *Kawina*, ROSS **59;** Transitory pygidia of *Ceraurus* considered to show evidence of several moults (with relative increase in size of last thoracic segment) within meraspid degree 7, EVITT **16.**

Growth. — General discussion; relative growth is often nearly isometric, HUPÉ **28;** Relative growth of length of (thorax + pygidium) against total length shows slight positive allometry in many genera, relative length of region of cephalon in front of glabella often passes through a maximum during development (based on published measurements by various authors), HUPÉ **27.**

EVOLUTION AND CLASSIFICATION

General works (theories).—Evolution considered of two types (i) paedomorphic, including caenogenesis deviation and neoteny—most important in Proparia and affecting *inter alia* glabellar shape, pré-glabellar field, proparian facial sutures, reduced number of post-cephalic segments; (ii) gerontomorphic—predominantly in Opisthoparia, affecting relative widening of axis, migration inwards of ω of facial suture, loss of ocular ridges, etc., HUPÉ **28;** Caudalisation may be due to the retarding during development of a caenogenetically-introduced factor inhibiting liberation of segments from the proto-pygidium, HUPÉ **27.**

Phylogeny. — Olenelloidae and Redlichioidae considered related, probably by common ancestry; the former gave rise to no later forms, but the Redlichioidae to several other superfamilies e.g. Corynexochoidae, Ptychoparioidae, etc., HUPÉ **29;** Remopleurididae derived from Kainellidae, and among the latter Apatokephalinae from Richardsonellinae, KOBAYASHI **40;** Most genera of Kingstoniidae derived independently from ptychopariids; Cedariidae con-

sidered of polyphyletic origin; Menomoniidae and Nepeidae derived independently from ptychopariids, as were Komaspidae (which probably gave rise to Telephidae) and Elviniidae, LOCHMAN 49; In Komaspidae a basic line *Komaspis-Irvingella-Irvingelloides* evolved slowly and gave rise to progressive off-shoots, LOCHMAN 49.

Postulated lineages. — *Amechilus-Hypothetica*-Harpidae with loss of facial sutures, HUPÉ 28; *Menoparia* may be derived from *Apatokephalus* with widening of the crescentic fixed cheek, ROSS 59; *Goniophrys* and *Carolinites* with development of preoccipital lobes; *Protopliomerops* spp. probably gave rise to *Cybelopsis*, *Pseudomera* and *Pseudocybele*, HINTZE 24.

Extinction. — Racial senescence probably the most important factor, excessive neoteny also invoked, HUPÉ 28.

Biometry. — Measurements made on 253 immature pygidia of *Ceraurus*, EVITT 16; Various measurements made on Asaphids; allometric relations (mostly negative) postulated between size of eyes (length, height, etc.) and length of cephalon, JAANUSSON 32.

Homeomorphy. — *Longianda* and some Corynexochoidae, HUPÉ 29.

Mimicry. — Suggested protective mimicry in *Lichas*, LAMONT 44.

Genetics. — Bifurcation of genal spines in *Trinucleus pongerardi* may be a lethal mutant character, HUPÉ 28.

Classification. — Five orders recognised: Agnostida, Eodiscida, Olenellida, Opisthoparia, Proparia, SHROCK & TWENHOFEL 66; Protoparia, Hypoparia and Proparia rejected; classification into Miomera (Eodiscoidae and Agnostoidae) and Polymera (23 superfamilies, eight of them new), HUPÉ 28; Kainellidae classified into Kainellinae, Richardsonellinae, Apatokephalinae and Macropyginae, KOBAYASHI 40; Bathynotidae probably not related to other Lower Cambrian families; Cedariidae classified into Cedariinae, Llanoaspinae and Raymondininae; Menomoniidae and Nepeidae separated, LOCHMAN 49; Illaenicae new superfamily for Illaenidae, Scutellidae, Styginidae and Bathyuridae; Asaphidae excluded, WHITTINGTON 81.

ECOLOGY AND HABITS

Abundance. — Estimate of number of individuals in fauna got by dividing number of specimens of each sp. by presumed number of moult-stages during life, SHAW 65.

Migration. — General discussion with analysis of faunal provinces, HUPÉ 28; Atlantic, Pacific and Siberian forms in Lower Cambrian of Morocco, HUPÉ 30; Strong European-North African element in Lower Devonian faunas of Australasia, GILL 21; Lower Devonian of N.E. Brazil contains European-North African elements as well as southern hemisphere forms, KEGEL 39; Australian faunas (Cambrian to Devonian) derived from widely separated sources —European, Asian and American, SINGLETON 69; Similarity of Lower Ordovician faunas of Greenland and parts of N. America, WHITTINGTON 81; Komaspidae and Elviniidae developed in Arctic-Asian basin and migrated to N. America and elsewhere, LOCHMAN 49; Central European *Colpocoryphe* from Florida, WHITTINGTON 82.

Habits. — General discussion, HUPÉ 28; Habits and adaptations of several Silurian genera discussed, LAMONT 44.

Ecology. — Olenellidae do not occur only in shale facies, and their importance in this facies is governed by factors of preservation not of ecology, LOCHMAN 47; In Llandeilo Flags *Basilicus tyrannus* and *Flexicalymene cambrensis* are almost invariably found in coarser sediments, while *Ogygiocaris buchi* is more common in finer-grained sediments, WILLIAMS 84.

Injury. — General discussion; damage to visual surface of *Asaphus cornutus* altering the shapes and arrangement of the lenses, HUPÉ 28; Wound-scars on fringe of *Harpes*, LAMONT 44; Cicatriced pleurae in *Grönwallia*, WESTERGÅRD 79.

DISTRIBUTION AND FAUNAS

Cambrian. — Australia, SINGLETON **69**; Norway, HOLTEDAHL **25**.

Cambrian (Lower). — Greenland, ADAMS & COWIE **1**; Morocco, CHOUBERT & HUPÉ **11**, DRESNAY & HUPÉ **14**, HUPÉ **26, 30**; Morocco (Anti-Atlas), CHOUBERT **10**; Morocco (Anti-Atlas), China (Yunnan), Korea, Spain (Andalusia), Britain (Shropshire), France (Hérault), Canada (New Brunswick), HUPÉ **29**.

Cambrian (Lower and Middle).— Britain (Shropshire), WHITTARD ET AL. **80**; U.S.A. and Mexico, LOCHMAN **47**.

Cambrian (Middle). — Morocco, HUPÉ **29**; Russia (Irkutsk), KOROLYUK **43**; Russia (Turkestan), REZVOÏ **57**; Sweden, WESTERGÅRD **79**.

Cambrian (Middle and Upper).— Argentina, RUSCONI **63**; Argentina (Mendoza), RUSCONI **60, 61**.

Cambrian (Upper). — Argentina, RUSCONI **62**; Sweden (Nerike), TJERNVIK **77**; Sweden (Scania), HEDE **23**; U.S.A., NELSON **51**, TASCH **75**; U.S.A. (Colorado), BASS & NORTHROP **4**; U.S.A. (Utah & Nevada), HINTZE **24**; U.S.A. (Vermont), SHAW **65**; U.S.A. (Wisconsin and Minnesota), BERG **5**.

Ordovician. — Britain (Shropshire), WHITTARD ET AL. **80**; Britain (Wales), WILLIAMS **84**; Greenland (N.E.), ADAMS & COWIE **1**; Ireland, LAMONT **45**; Norway, HOLTEDAHL **25**; Russia (Kazakhstan), KOROLEVA **42**.

Ordovician (Lower). — Argentina (Mendoza), RUSCONI **61**; Australia, SINGLETON **69**; Britain (Shropshire), WHITTARD ET AL. **80**; Canada (British Columbia), KOBAYASHI **40**; Sweden (Scania), HEDE **23**; Sweden and Norway, TJERNVIK **77**; U.S.A. (Colorado), BASS & NORTHROP **4**; U.S.A. (Idaho and Utah), ROSS **59**; Yunnan, Korea, KOBAYASHI **40**.

Ordovician (Lower and Middle).— U.S.A. (Florida), WHITTINGTON **82**; U.S.A. (Utah and Nevada), HINTZE **24**; U.S.A. and Canada, WHITTINGTON **81**.

Ordovician (Middle). — Canada (Quebec), SINCLAIR **68**, STÄUBLE **70, 71 72**; Norway (Oslo), STØRMER **73**; Scandinavia and Baltic, JAANUSSON **32**; Spain, BORN **6, 7**; Sweden (loose blocks), JAANUSSON **33**; U.S.A. (Virginia, Tennessee, Alabama), COOPER **12**.

Ordovician (Middle and Upper).— U.S.A. (New York), KAY **36**.

Ordovician (Upper). — Britain and Scandinavia, TEMPLE **76**; Sweden (Dalarna), JAANUSSON & MARTNA **34**, JAANUSSON **31**; Sweden (Scania), LINDSTRÖM **46**; U.S.A., EVITT & WHITTINGTON **17**; U.S.A. (New York) GARRETSON **20**; U.S.A. (New York and Virginia), EVITT **16**; U.S.A. (Texas), BARNES, CLOUD & DUNCAN **3**.

Silurian. — Britain (Scotland), LAMONT **44**; Britain (Wales), WILLIAMS **84**; Greenland (N.E.), ADAMS & COWIE **1**; Ireland, LAMONT **45**; Norway, HOLTEDAHL **25**.

Silurian (Lower). — Britain and Scandinavia, TEMPLE **76**.

Silurian (Middle).—U.S.A. (New York), FISHER **18**.

Silurian (Upper).—Britain (Shropshire), WHITTARD ET AL. **80**.

Devonian. — France (Brittany), PILLET **54**.

Devonian (Lower).—Australasia and North Africa, GILL **21**; Brazil (N.E.), KEGEL **39**; Spain (Asturias), KEGEL **37**.

Devonian (Middle). — France (Haute-Garonne), DESTOMBES **13**; Germany (Eifel), ERBEN **15**, GLINSKI **22**; U.S.A. (New York), SARGENT **64**.

Devonian (Middle and Upper).— Australia, SINGLETON **69**.

Devonian (Upper).—Russia (Kazakhstan), BALASCHOVA & BALASCHOV **2**.

Carboniferous. — Czechoslovakia (Moravia), PŘIBYL **55**; Britain (Yorkshire), STUBBLEFIELD **74**.

Carboniferous (Lower). — Africa (Sahara), FOLLOT **19**; Spain, R. & E. RICHTER **58**.

Carboniferous (Upper). — Brazil (Piauí & Amazonas), KEGEL **38**; Brazil (N.E.), KEGEL **39**.

Permian.—U.S.A. (Texas and New Mexico), NEWELL ET AL. **52**.

III.—SYSTEMATIC INDEX

N.B.—*The numbers in large Clarendon type refer to the list of Titles where the full reference will be found, those in small Clarendon type to the volume number of the reference. Since all the species of the group are fossil, the † used elsewhere in the Zoological Record to indicate fossils is here omitted.*

Abadiella Hupé [nom. nud.] referred to Abadiellidae p. 179, HUPÉ **28.**

Abadiella **gen. n.** [nom. nud. 1952] [Abadiellidae] pp. 153, 204 for type *A. bourgini* **sp. n.** p. 205 text-fig. 45 (2), *A.* cf. *b.* p. 60, *A. meteora* **sp. n.** p. 205 pl. ix fig. 10 text-figs. 36 (16), 45 (3) Cambrian (Lower) Morocco (Anti-Atlas), *A.* stated to have macropleural 11th segment p. 282 footnote [but thorax stated unknown p. 153], HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Abadiellidae Hupé 1952 [recte 1953] for *Redlichina* Lermontova 1940 and *Abadiella* H. [nom.nud.] p. 179, HUPÉ **28.**

Abadiellidae **fam. n.** [Redlichioidae] pp. 152, 203 for *Abadiella* **gen. n.** and *Redlichina* Lermontova 1940, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Acantholoma-type glabella (schematic) text-fig. 62 (3), HUPÉ **28.**

Acanthomicmacca **subgen. n.** of *Micmacca* [quod vide].

Acanthopyge (*haueri* type) from Australasia p. 90, GILL **21.**

Acaste cf. *downingiae* (Murchison) p. 199, WILLIAMS **84.**

Acerocare ? costatus text-figs. 69 (28, 29), *A. ? norvegicum* text-figs. 70 (2, 3), HOLTEDAHL **25.**

Achatella sp. p. 852, SINCLAIR **68.**

Acheilops Ulrich 1930 referred to Raymondinidae p. 199, HUPÉ **28.**

Acheilus Raymond 1924 referred to Raymondinidae, *A. marcoui* R. text-fig. 122 (7), HUPÉ **28.**

Acidaspis lothiana p. 27, *A. dealgach* p. 28 [spp. nondescr. Lamont 1948], LAMONT **44.**

Acidaspis trentonensis Walcott p. 61, KAY **36.**

Acidaspis sp. pp. 191, 199, WILLIAMS **84.**

Acidiphorus Raymond 1925 considered possibly congeneric with *Goniotelus* Ulrich or *Goniotelina* **gen. n.** p. 669, *A. spinifer* R. holotype refigured pl. lviii fig. 12, WHITTINGTON **81.**

Acidophorus [recte *Acidiphorus*] Raymond 1925 referred tentatively to Telephidae p. 229, HUPÉ **28.**

Acontheinae Westergård 1950 accepted p. 185, HUPÉ **28.**

Acontheus acutangulus Ang. listed p. 36, WESTERGÅRD **79.**

Acrocephalina Troedsson 1937 referred to Acrocephalitidae **fam. n.** p. 197, HUPÉ **28.**

Acrocephalites Wallerius 1895 referred to Acrocephalitidae **fam. n.** p. 197, *A. stenometopus* (Angelin) text-fig. 122 (3), HUPÉ **28.**

Acrocephalites stenometopus (Ang.) listed p. 40, WESTERGÅRD **79.**

Acrocephalitidae **fam. n.** [Solenopleuroidae] for *Acrocephalites*, *Aldanaspis*, *Acrocephalina* and *Proampyx* p. 195, HUPÉ Traité de Paléontologie **3** 1953.

Acrocephalops Poulsen 1927 referred tentatively to Alokistocarinae **subfam. n.** p. 190, HUPÉ **28.**

Acrocephalops referred to Nepeidae p. 892, LOCHMAN **49.**

Acrolichas punctatus Web. p. 1044, KOROLEVA **42.**

Acrolichas aff. *A. trentonensis* (Conrad) p. 852, SINCLAIR **68.**

Aculeodiscus Šnajdr 1950 considered either a synonym of or an acceptable substitute for *Dawsonia* Hartt 1868 [quod vide], *A. bohemicus* Š. 1950 (the type species) should be called by the older name *A. dawsoni* (H.) 1868 (type of *D.*) if the two spp. are united as subspp., or the two should be considered distinct spp., SINCLAIR **67.**

Aeglina binadosa [recte *binodosa*] from Ireland line drawing text-fig. 11 (5), CHARLESWORTH **9.**

Aeglina binadosa of Charlesworth 1953 may be *Cyclopyge prisca* (Barrande) p. 435, LAMONT **45.**

Agnostid trilobites recorded p. 6, HINTZE **24.**

Agnostidae McCoy 1849 considered to include *Agnostus*, *Homagnostus*, *Oidalagnostus* and *Pseudagnostus* p. 172, HUPÉ **28.**

Agnostoidae (Salter 1862[sic] emend.) classified into five groups (i) Platagnostidae, Lejopygidae, Phalacromidae, Leiagnostidae, Sphaeragnostidae; (ii) Condylopygidae; (iii) Diplagnostidae; (iv) Agnostidae, Hastagnostidae; (v) Micragnostidae, Spinagnostidae, Clavagnostidae, Geragnostidae, Cyclagnostidae [recte Cyclopagnostidae], Trinodidae p. 170, HUPÉ **28.**

? *Agnostus cuyanus* Rusc. p. 7, RUSCONI **60.**

Agnostus (*Peronopsis*) *fallax* text-fig. 69 (9), *A.* (*Lejopyge*) *laevigatus* text-fig. 69 (16), *A. pisiformis* text-fig. 69 (17), HOLTEDAHL **25.**

Agnostus interstrictus (after Walcott) text-figs. 13. 34 A, B, *A. montis* text-fig. 13. 34 C, SHROCK & TWENHOFEL **66.**

Agnostus cf. *maccoyi* Salter, *A. morei* S. p. 239, WHITTARD *in* WHITTARD ET AL. **80.**

Agnostus glabella (diagrammatic) text-fig. 114 (7), *A. pisiformis* Linné text-fig. 113 (top left), HUPÉ **28.**

Agnostus pisiformis p. 73, TJERNVIK **77.**

Agraulidae Raymond 1913 (*non* Howell 1937) referred to Agrauloidae **superfam. n.**, and taken to include *Mexicella*, *Agraulos*, *Paragraulos*, *Metagraulos*, ? *Camaraspis*, ? *Agraulopsis* and *Skreiaspis* p. 187, HUPÉ **28.**

Agrauloidae **superfam. n.** to include Agraulidae and Plethopeltidae p. 186, HUPÉ Traité de Paléontologie **3** 1953.

Agraulopsis Růžička 1939 referred tentatively to Agraulidae p. 187, HUPÉ **28.**

Agraulos Corda 1847—*Proampyx* Frech 1897 a subjective synonym p. 3, *A. difformis* (Angelin 1851) *partim* lectotype selected and figured p. 4 pl. i figs. 1–8, *A. aculeatus* (A. 1851) lectotype selected and figured p. 5 pl. i figs. 9–10, *A. acuminatus* (A. 1851) lectotype selected and figured p. 6 pl. i figs. 11–15, *A. anceps* **sp. n.** for *A. acuminatus* Holm & Westergaard 1930 (*non* A.) Cambrian (Middle) Sweden (Scania) p. 6 pl. ii figs. 1–3, *A.* sp. [free cheeks] pl. i figs. 16–17; *A. d.* (A. 1851) *partim* [pygidium] referred to *Grönwallia microphthalma* (A.) 1851 p. 4, WESTERGÅRD Sverig. geol. Unders. Afh. [C] No. 526 **1953.**

Agraulos ceticephalus Barrande text-fig. 120 (1), HUPÉ **28.**

Agraulos robustus Cobbold p. 235, POCOCK *in* WHITTARD ET AL. **80.**

Alanisia Hupé [nom. nud.] referred to Antatlasiidae p. 180, HUPÉ **28.**

Alanisia **gen. n.** [Antatlasiidae] pp. 154, 207 for type *Camaraspis guillermoi* R. & E. Richter 1940 text-fig. 56 (10) line drawing, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Albansia Howell 1937 referred to Solenopariidae **fam. n.** p. 195, HUPÉ **28.**

Albertella Walcott 1908 referred to Albertellidae **fam. n.** p. 183, HUPÉ **28.**

Albertellidae **fam. n.** [Corynexochoidae] for *Albertella* Walcott 1908 p. 183, HUPÉ Traité de Paléontologie **3** 1953.

Aldonia [recte *Aldonaia*] Lermontova 1940 referred to Ellipsocephalidae (Aldoniinae) **subfam. n.** p. 181, HUPÉ **28.**

Aldoniinae Hupé 1952 [recte **subfam. n.**] [Ellipsocephalidae] for *Aldonia* [recte *Aldonaia*] Lermontova 1940 and *Rinconia* **gen. n.** p. 181, HUPÉ Traité de Paléontologie **3** 1953.

Aldoniinae subfam. nov. [Hupé 1953] p. 157, HUPÉ **29.**

Aldonaspis [recte *Aldanaspis*] Lermontova 1940 referred to Acrocephalitidae **fam. n.** p. 197, HUPÉ **28.**

Alemtjoia Delgado 1904 [recte *Alemtejoia* Kobayashi 1943]—*Pagetiellus* Toll 1899 [recte Lermontova 1940] a synonym p. 168, HUPÉ **28.**

Alokistocare Lorenz 1906 referred to Alokistocarinae **subfam. n.** p. 190, *A. georgense* Resser text-fig. 121 (1), HUPÉ **28.**

Alokistocarella Resser 1938 referred to Alokistocarinae **subfamm. n.** p. 190, HUPÉ **28.**

Alokistocaridae see *Ptychoparopsis* **gen. n.**

Alokistocaridae Resser 1939 referred to Ptychoparioidae and subdivided into Alokistocarinae and Amecephalinae **subfamm. n.** p. 190, HUPÉ **28.**

Alokistocarinae **subfam. n.** [Alokistocaridae] for *Alokistocare*, *Eldoradia*, *Alokistocarella*, *Kochina*, *Kochiella*, *Inglefieldia*, ? *Acrocephalops*, ? *Deiracephalus*, ? *Kistocare* and ? *Sombrerella* p. 190, HUPÉ Traité de Paléontologie **3** 1953.

Alsataspidae Turner 1940 referred to Trinucleoidae p. 242, HUPÉ **28.**

Amblycranium Ross 1951 referred to Hystricuridae **fam. n.** p. 198, HUPÉ **28.**

Amblycranium variabile Ross listed p. 10, *A. cornutum* R. listed p. 11, HINTZE **24.**

Amecephalinae **subfam. n.** [Alokistocaridae] for *Amecephalus*, *Strotocephalus*, *Chancia*, ? *Bolaspidella* and ? *Proveedoria* p. 192, HUPÉ Traité de Paléontologie **3** 1953.

Amecephalus Walcott 1924 referred to Alokistocaridae (Amecephalinae) **subfam. n.** p. 192, HUPÉ **28.**

Amecephalus Walcott 1924—*Strotocephalus* Resser 1935 accepted as a synonym, *A. arrojosensis* (Lochman) revised assignment of *S. a.* Lochman 1952 p. 486, LOCHMAN **47.**

Amechilus Ross 1951 referred to Hypotheticidae **fam. n.** p. 240, *A. palaora* R. text-fig. 11 (1) line drawing, HUPÉ **28.**

Ameura Weller 1936 referred to Griffithidinae **subfam. n.** p. 219, HUPÉ **28.**

Amiaspis Lochman & Duncan [recte Lochman] 1944 referred to Lonchocephalidae **fam. n.** p. 197, HUPÉ **28.**

Amphilichas sp. p. 1037, BARNES, CLOUD & DUNCAN **3.**

Amphilichas sp. p. 1044, KOROLEVA **42.**

Amphion nevadensis Walcott too poorly preserved to be referred to *Pseudomera* Holliday 1942 p. 221, *A. barrandei* Billings see *P.*, HINTZE **24.**

Amphoton Lorenz 1906 referred to Bathyuriscinae **subfam. n.** p. 184, HUPÉ **28.**

Ampyx americanus Safford & Vogdes 1889 holotype refigured p. 15 pl. v figs. 3–5, 8–9, *A. camurus* Raymond p. 16 pl. v figs. 1–2, 6–7, *A. lobatus* **sp. n.** p. 16 pl. vi figs. 3–4, *A. virginiensis* **sp. n.** including *A. hastatus* Butts 1941 (*non* Ruedemann) p. 16 pl. vii figs. 1–11, 18 Ordovician (Middle) U.S.A. (Virginia), *A. hastatus* R. discussed p. 17, COOPER Mem. geol. Soc. Amer. No. 55 1953.

Ampyx costatus Boeck p. 130, LINDSTRÖM **46.**

Ampyx mammilatus p. 58, *A.* spp. including *A. costatus* p. 62, *A.* ? *aculeatus* p. 94, *A. nasutus* p. 102, STØRMER **73.**

Ampyx mammillatus austini (Portlock), *A.* cf. *nudus* (Murchison) p. 239, WHITTARD *in* WHITTARD ET AL. **80.**

Ampyx nudus from Ireland line drawing text-fig. 11 (3), CHARLESWORTH **9.**

Ampyx nudus (Murchison) probably does not occur in Ireland, *A. n.* of Charlesworth 1953 (*non* M.) probably a *Raphiophorus* p. 434, LAMONT **45.**

Ampyx sp. p. 179, WILLIAMS **84.**

Ampyxina Ulrich 1922 referred to Endymioniidae p. 242, HUPÉ **28.**

Ampyxina powelli (Raymond) 1920 with synonym *A. scarabeus* Butts 1941 p. 13 pl. iv figs. 1–9, 12, *A. elegans* **sp. n.** Ordovician (Middle) U.S.A. (Virginia) p. 14 pl. iv figs. 10–11, 13–19, *A.* sp. p. 14, COOPER Mem. geol. Soc. Amer. No. 55 1953.

Amquia Rasetti 1946 referred to Pilgrimiidae **fam. n.** p. 201, HUPÉ **28.**

Amquia Rasetti 1946 referred to Raymondininae p. 891, LOCHMAN **49.**

Andesaspis argentinensis Kobayashi 1935 *partim* [pygidium] referred to *Pseudokainella lata* p. 57, KOBAYASHI **40.**

Andrarina Raymond 1937 referred tentatively to Richardsonellidae p. 206, HUPÉ **28**.

Andrarina costata (Ang.) listed p. 38, WESTERGÅRD **79**.

Anglagnostus Howell 1935 referred to Micragnostidae p. 173, HUPÉ **28**.

Angusteva **gen. n.** [?Eodiscoidae] for type *Pagetia ? annio* (Cobbold) p. 114, *A. zirarii* **sp. n.** Cambrian (Lower) Morocco (Anti-Atlas) p. 115 text-fig. 15, *Angusteva* may however be closely related to *Strenueva* [quod vide] p. 207, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Anisonotella Whittington 1952 referred to Shumardiidae p. 242, HUPÉ **28**.

Anisonotus Raymond 1920 see *Anisonotella* Whittington 1952.

Anisopyge Girty 1908 referred to Phillipsiidae (Anisopyginae) **subfam. n.** p. 219, HUPÉ **28**.

Anisopyge perannulata, *A. inorata* p. 232, NEWELL ET AL. **52**.

Anisopyginae **subfam. n.** [Phillipsiidae] for *Anisopyge* and *Pseudophillipsia* p. 219, HUPÉ Traité de Paléontologie **3** 1953.

Ankoura Resser 1938 referred to Kingstoniidae p. 890, LOCHMAN **49**.

Annamitella [Mansuy 1916] considered not certainly a bathyurid p. 650, WHITTINGTON **81**.

Annamitia Mansuy 1916 referred to Parasolenopleuridae **fam. n.** p. 189, HUPÉ **28**.

Anomalocephalus Deiss 1939 referred to Clappaspinae **subfam. n.** p. 193, HUPÉ **28**.

Anomocare laeve (Ang.), *A. longifrons* Wgård, *A.* cf. *l.* W. listed p. 38, WESTERGÅRD **79**.

Anomocare laevi Lerm. [sic] p. 917, KOROLYUK **43**.

Anomocare cf. *megalurus* Mansuy 1916 referred to *Kainella primigena* **sp. n.** p. 44, KOBAYASHI **40**.

Anomocare platycephalum Cobbold 1910 type of *Comluella* **gen. n.** [quod vide], to which *A. cobboldi* Richter 1919 also referred p. 236, *A. ? pustulatum* C. 1910 see *C. strenuelloides*, HUPÉ **29**.

Anomocarella Walcott 1905 referred to Anomocarellidae **fam. n.** p. 189, HUPÉ **28**.

Anomocarellidae **fam. n.** [Parasolenopleuroidae] for *Glossocoryphus*, ? *Mcnairia*, *Anomocarella*, *Kaninia*, *Eymekops*, *Dolgaia*, *Manchuriella*, *Eilura*, *Psilaspis*, *Peishania*, *Haniwa*, ? *Deadwoodia* and ? *Mapania* p. 189, HUPÉ Traité de Paléontologie **3** 1953.

Anomocaridae Poulsen 1927 emend. referred to Dikelocephaloidae and taken to include *Pterocephalia*, *Paracoosia*, *Birmanites*, *Glyphaspis*, *Lioparia*, *Coosia*, *Maryvillia*, *Coosella*, *Haniwoides*, *Anomocare*, *Anomocarioides*, *Pterocephalina*, ? *Mareda*, ? *Koptura* and ? *Sneedvillia* p. 212, HUPÉ **28**.

Anomocarina excavata (Ang.), *A.* cf. *e.*, *A. extornata* (Wgård) listed p. 38, WESTERGÅRD **79**.

Anomocarioides limbatus (Ang.) listed p. 38, WESTERGÅRD **79**.

Anoria Walcott 1914 referred to Glossopleurinae **subfam. n.** p. 185, HUPÉ **28**.

Antagmidae (?) **fam. n.** [Ptychoparioidae] for *Antagmus*, *Litocodia*, *Proliostracus*, *Onchocephalus*, *Piazella*, *Syspacephalus*, *Crassifimbria*, *Caborcella*, ? *Sombrerella* p. 192, HUPÉ Traité de Paléontologie **3** 1953.

Antagmus Resser 1936 referred to Antagmidae **fam. n.** p. 192, *A. teucer* (Walcott) text-fig. 121 (3), HUPÉ **28**.

Antatlasia Hupé [nom. nud.] referred to Antatlasiidae p. 180, HUPÉ **28**.

Antatlasia **gen. n.** [Antatlasiidae] pp. 154, 207 for type *A. hollardi* **sp. n.** p. 208 pl. vi figs. 10–13, 15, pl. vii fig. 11, text-figs. 56 (20), 63B line drawings, *A.* cf. *h.* table 3, *A. bourgini* **sp. n.** including *Protolenus* cf. *latouchei* of Neltner & Pootey 1949 p. 208 pl. vi fig. 14, pl. vii figs. 8–10 Cambrian (Lower) Morocco (Anti-Atlas) [gen. et spp. nomina nuda 1952], HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Antatlasiidae Hupé 1952 [recte 1953] for *Antatlasia*, *Hindermeyeria* and *Alanisia* H. [nomina nuda] and ? *Protagraulos* Matthew 1895 p. 180 HUPÉ **28**.

Antatlasiidae **fam. n.** [Redlichioidae] pp. 153, 206 for *Antatlasia*, *Hindermeyeria*, *Alanisia* **genn. n.**, ? *Protagraulos* Matthew 1895 and probably *Strenueva* R. & E. Richter 1940, Hupé Notes Serv. Min. Maroc No. 103 1953.

Aojia Resser & Endo 1937 referred to Solenopariidae **fam. n.** p. 195, Hupé **28.**

Apachia Frederickson 1939 [recte 1949] referred to Solenopariidae **fam. n.** p. 195, Hupé **28.**

Apatokephalinae **subfam. n.** of Kainellidae Ulrich & Resser 1930 to include *Apatokephalus* Brögger 1897, *Scinocephalus* Ross 1951 and *Tramoria* Reed 1899 p. 51, Kobayashi Japan. J. Geol. Geogr. **23** 3 1953.

Apatokephalus Brögger 1897 referred to Kainellidae (Apatokephalinae) **subfam. n.** p. 51, *A. pecten* Wiman 1905 p. 52 pl. iv fig. 11 (line drawing), *A. assai* Weber 1932 p. 52 pl. iv fig. 4 (line drawing), *A. canadensis* **sp. n.** Canada (British Columbia) p. 52 pl. iii figs. 1–4, *A. hyotan* **sp. n.** Korea p. 52 pl. iii figs. 17–23 Ordovician (Lower), *A.* (*Diplapatokephalus*) Raymond 1937 so referred, *D. finalis* (Walcott) pl. iv fig. 13 (line drawing); "*A.*" sp. Kobayashi 1934 referred tentatively to *Pseudokainella* p. 47 [to *P.* γ sp. p. 59], *A.* sp. indet. Reed 1903 to *Robergia* sp. p. 52, *A.* aff. *serratus* of Klouček 1931 is closer to *A. dubius* Linnarsson p. 51, Kobayashi Japan. J. Geol. Geogr. **23** 3 1953.

Apatokephalus finalis (Walcott) listed p. 9, Hintze **24.**

Apatokephalus ? sp. p. 636 pl. lxii figs. 8, 12, Ross **59.**

Apedopyganus [recte *Apedopyanus*] Raymond 1937 accepted as a synonym of *Bolaspidella* Resser 1937 p. 892, Lochman **49.**

Aphelaspis Resser 1935 considered to be based on misidentified type *Conocephalites depressus* Resser 1935 and Bridge 1937 (*non* Shumard 1861), proposed [to ICZN] to designate *A. walcotti* R. 1938 (with which *C. d.* Resser is considered conspecific) as type of *A.* and to place *A.* on Official List of Generic Names, Palmer **53.**

Aposolenopleura Raymond 1937 referred to Solenopleurinae **subfam. n.** p. 195, Hupé **28.**

Aposolenopleura Raymond 1937—*Punctularia* R. 1937 a subjective synonym p. 888, *A. quebecensis* **sp. n.** see *P. quebecensis* **sp. n.**, Lochman **48.**

Aposolenopleura cf. *dunbari* Raymond 1937 p. 140, Shaw **65.**

Arapahoia [misspelt *Arapohia*] Miller 1936 referred to Plethopeltidae, *Hesperaspis* Stoyanow a synonym p. 188, *A. polita* Resser text-fig. 120 (2) and *A. stantoni* R. text-fig. 120 (3), Hupé **28.**

Arapahoia Miller 1936—*Hesperaspis* Stoyanow 1936 accepted as a synonym p. 890, Lochman **49.**

? *Arapahoia pichana* **sp. n.** Cambrian (Upper) Argentina p. 3 text-fig. 6, Rusconi Bol. paleont. B. Aires No. 27 1953.

Arapohia misspelling of *Arapahoia* [quod vide] p. 188, Hupé **28.**

Archaeops Hupé [nom. nud.] referred to Latiredlichiidae p. 179, Hupé **28.**

Archaeops [spelt *Archeops* on p. 152] **gen. n.** [Latiredlichiidae] pp. 152, 194 for type *Redlichia walcotti* Lu 1941 (*non* Mansuy) renamed *A. lui* **sp. n.** p. 195 footnote Cambrian (Lower) Yunnan, Hupé Notes Serv. Min. Maroc No. 103 1953.

Arcueva **subgen. nondescr.** of *Strenueva* [quod vide] p. 43, Hupé **30.**

Areiinae subfam. nov. [recte Prantl & Přibyl 1947 emend.] for *Areia* Barrande, ? *Prosopiscus* Salter and ? *Typhloniscus* S. p. 238, Hupé **28.**

Armonia Walcott 1925—*Métisia* Resser 1937 a subjective synonym p. 887, Lochman **48.**

Arthrorhachis see *Trinodus*.

Artractopyge Hawle & Corda 1874 error pro *Atractopyge* Hawle & Corda 1847 p. 239, Hupé **28.**

Asaphellus Callaway 1877 see Ogygiocarinae.

Asaphellus ? quadrata **sp. n.** (with synonym *Megasaspidiella* [sic] n. sp. Hintze 1951 on p. 12) p. 133 pl. xvi figs. 1–5, *A. ? venta* **sp. n.** p. 134 pl. xvi figs. 6–11, *A. ?* sp. p. 137 pl. xvi fig. 12 Ordovician (Lower) U.S.A. (Utah), HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Asaphidae see *Ogmasaphus*, *Plectasaphus*, *Pseudomegalaspis* and *Xenasaphus* **genn. n.**

Asaphidae Burmeister 1843 classified into Taihungshaninae, Ogygiocarinae and Asaphinae p. 221, HUPÉ **28.**

Asaphidae not placed with Illaenidae, Scutellidae etc. in Illaenicae **superfam. n.** [quod vide] p. 649, WHITTINGTON **81.**

Asaphidarum sp. p. 1044, KOROLEVA **42.**

Asaphinae Raymond 1913 grouped into (*A*) *Trigonocerca*; (*B*) (a) *Asaphus*, *Onchometopus*, *Brachyaspis*, *Vogdesia*, *Homotelus*; (b) *Megalaspides*, *Pseudoasaphus*; (c) *Isoteloides*, *Basilicoides*, *Lachnostoma*, *Ogygitoides*, *Pseudobasilicus*, *Pseudogygites*, *Basiliella*, *Ptychopyge*; (d) *Isotelus*, *Ectenaspis*; (e) *Kirkella*; (f) *Basilicus*, *Promegalaspides*, *Basiliella* [sic], *Parabasilicus* p. 223, HUPÉ **28.**

Asaphiscidae Raymond 1924 referred to Asaphiscoidae **superfam. n.**, and taken to include *Proasaphiscus*, *Asaphiscus*, *Blainia*, *Modocia*, *Wilbernia*, *Dunderbergia* and ? *Loganellus* p. 202, Norwoodiidae and Cedariidae may be related p. 201 footnote, HUPÉ **28.**

Asaphiscoidae **superfam. n.** to include Asaphiscidae, Blountiidae, Crepicephalidae, Tsinaniidae, Marjumiidae, Housiidae, Ceratopygidae p. 201, HUPÉ Traité de Paléontologie **3** 1953.

Asaphiscus iddingsi of Gigout 1937 referred tentatively to *Comluella* **gen. n.** p. 74, HUPÉ **29.**

Asaphiscus wheeleri Meek text-fig. 124 (1), HUPÉ **28.**

Asaphoidae Salter 1864 emend. taken to include Nileidae, Asaphidae and Cyclopygidae p. 220, HUPÉ **28.**

Asaphopsoides nom. nud. [Dikelocephalininae] p. 213, HUPÉ **28.**

Asaphus Brongniart 1822 discussed, following spp. considered nomina nuda *A. platyurus maximus* Moberg 1890, *A. priscus*, *A. eichwaldi expansoides*, *A. e. lepiduroides* and *A. schmidti* Lamansky 1905 spp., *A. raniceps maxima* Brögger 1886, *A. jevensis* [Fr. Schmidt MS] Pompecki [sic] 1890; *A.* (*Neoasaphus*) *sulevi* **nom. n.** for *A. eichwaldi* Schmidt 1898 (*non* Fischer 1825), *A.* (*N.*) *s. ingrianus* **nom. n.** for *A. e. applanata* S. 1901 (*non A. devexus a.* S. 1901), *A.* (*N.*) *platyurus latigena* **nom. n.** for *A. p. laticauda* S. 1901 (*non A. laevissimus l.* S. 1898) p. 393; following spp. considered nomina dubia (see also *Trilobites* and *Cryptonymus*) *A. expansus* var. *β raniceps* Dalman 1827 [specimen figured by Angelin and Brögger considered to be not the original type], *A. e.* var. *incerta* B. 1882, *A. obtusus* Pompecki 1890 pp. 394–5; *A. raniceps* Angelin 1854 (*non* Dalman) may be identical with some later legitimate sp.; *A. aculeatus* Wiman 1907 a subjective synonym of *A. latisegmentatus* Nieszkowski 1857, *A. rusticus* Törnquist 1884 [lectotype chosen] and *A. wahlenbergii* W. 1907 of *A. lepidus* T. 1884, *A. oculosus* Pompecki 1890 [lectotype chosen] of *A. cornutus* Pander 1830, and tentatively *A. nieszkowskii* mut. *jevensis* Schmidt 1898 of *A. branconis* Pompecki 1890 p. 395.

Asaphus (*Asaphus*) subdivided into (a) Group of *A.* (*A.*) *expansus* (Linné) 1759 text-fig. 3 (1) including also *A. fallax* Angelin 1854 [considered distinct from *A.* (*A.*) *e.*] lectotype text-figs. 3 (2), 5 (1) and *A. lepidurus* Nieszkowski 1859, (b) Group of *A.* (*A.*) *raniceps* sensu Angelin 1854 (*non* Dalman) including also *A. vicarius* Törnquist 1884, *A. bröggeri* [nom. nud. 1898 p. 392] and *A. r. lamanskyi* Schmidt 1901 p. 397; *A.* (*Onchometopus*) Schmidt 1898 discussed p. 397; *A.* (*Neoasaphus*) **subgen. n.** for type *Asaphus ludibundus* Törnquist 1884 Ordovician (Middle) Sweden lectotype chosen and figured, measurements given, relations to *A. nieszkowskii* Schmidt discussed p. 399 pl. i figs. 1–12, pl. ii figs. 1–2, text-figs. 3 (5), 5 (2), 6 (graph), 8, *A.* (*Neoasaphus*) *lepidus* T.

1884 [synonyms vide supra] lectotype chosen and figured, young form described, measurements given p. 409 pl. ii figs. 3–11, pl. iii figs. 1–3 (holotype of *A. wahlenbergii*), text-figs. 7 (graph), 9, 10; *A. ludibundus* Schmidt 1901 (*non* T.) *partim* referred to *A. nieszkowskii* S. (pl. 8 figs. 1–10) and to *A. robergi* Wiman (pl. 8 fig. 11), *A. n.* Thorslund 1940 (*non* S.) to *A. ludibundus* p. 399, *A. lepidus* S. 1907 (*non* T.) to *A. n.* p. 409; *Asaphus* (*Neoasaphus*) subdivided into (a) Group of *A.* (*N.*) *cornutus* Pander 1830 including also *A. kowalewskii* Lawrow 1856, *A. eichwaldi knyrkoi*, *A. c. holmi* S. [nom. nud. 1898 p. 392] 1901, *A.* (*N.*) *sulevi* and *A.* (*N.*) *s. ingrianus* **nomm. n.**, (b) Group of *A.* (*N.*) *ludibundus* T. 1884 including also *A. latus* Pander 1830, *A. platyurus*, *Ptychopyge glabrata* Angelin 1854, *A. delphinus* L. 1856, *A. latisegmentatus* Nieszkowski 1857, *A. lepidus* T. 1884, *A. ornatus*, *A. branconis* Pompecki 1890, *A. laevissimus*, *A. l. laticauda*, *A. nieszkowskii* Schmidt 1898 spp., *A. pachyophthalmus*, *A. latus plautini*, *A. n.* muts. *itferensis* and *kegelensis* [these four considered nomina nuda 1898 p. 392], *A. p. major* and *minor*, *A. n.* mut. *jewensis* Schmidt 1901 spp., *A. uplandicus* and *A. robergii* Wiman 1907, *A. platyurus latigena* **nom. n.** p. 398; *A. demissus* T. 1884 and *A. fennicus* W. 1907 [may represent a young stage p. 413] also referred to *A.* (*N.*), *Trilobites striatus* Boeck 1838 and *A. s. sarsi* Brögger 1882 tentatively excluded.

A. undulatus Steinhardt 1874 and *A. densistrius* T. 1884 [lectotype selected and refigured] subjective synonyms of *Pseudasaphus aciculatus* (Angelin) 1854 p. 423, *A. rotundifrons* Hoffmann 1858 and *A. steinhardti* Pompecki 1890 of *P. globifrons* (Eichwald) 1857 p. 418; *A. praetextus* T. 1884 [lectotype selected] type of *Ogmasaphus* **gen. n.** p. 427, *A. p.* Wiman 1907 (*non* T.) *partim* referred to *A.* (*Neoasaphus*) n. sp. [undescr.] p. 432, *A. plicicostis* T. 1884 [lectotype selected] type of *Plectasaphus* **gen. n.** p. 438; *A. ingens* Barrande (*non* Olin 1906) may be referable to *Basiliella*, Olin's 1906 view that *Niobe lata* Angelin 1851 [quod vide] is identical not upheld p. 445, *A. laticostatus* McCoy 1851 excluded from *Pseudobasilicus* and considered possibly an *Ogyginus* (or *Pseudogygites*) p. 445, *A. radiatus* Salter 1846 generic reference uncertain p. 446, *A. nobilis* B. 1846 and *A. brachyrachis* T. 1884 referred with doubt to *Pseudobasilicus* p. 445, *A. devexus* Eichwald 1840 type of *Xenasaphus* **gen. n.** to which *A. d. applanata* Schmidt 1901 is also referred p. 459, Jaanusson Ark. Min. 1 14 1953.

Asaphus Brongniart 1822 see Asaphinae, *A. expansus* Dalman text-fig. 130 (2), Hupé **28.**

Asaphus ? glabratus (Ang.) p. 130, Lindström **46.**

Asaphus ludibundus Tqt. p. 190, *A.* cf. *l.* p. 189, Jaanusson & Martna **34.**

Asaphus pelops Billings 1865 tentatively referred to *Pseudonileus* **gen. n.** p. 224, Hintze **24.**

Asaphus platyurus text-fig. 74 (1), Holtedahl **25.**

Asaphus (*Neoasaphus*) *platyurus platyurus* Angelin 1854 neotype (pygidium) chosen, with synonym var. *maximus* Moberg 1890 [nom. nud.] p. 467 pl. i figs. 1–6, pl. ii figs. 1–3, text-figs. 1–3 (reconstructions), *A.* (*N.*) *p. latisegmentatus* Nieszkowski 1857 for *A. l.* Niesz. lectotype chosen, including in synonymy *A. p. laticauda* Schmidt 1901, *A.* (*N.*) *p. latigena* Jaanusson 1953 [quod vide] and *A. aculeatus* Wiman 1907 [lectotype chosen and figured] p. 475 pl. ii figs. 4–6, pl. iii figs. 1–4, text-fig. 4 (schematic), *A.* (*N.*) *fennicus* W. 1907 lectotype chosen and figured, considered possibly merely a young form of *A.* (*N.*) *ludibundus* Törnquist, *A. p.* Bekker 1921 (*non* A.) tentatively in synonymy p. 478 pl. iii figs. 5–7, *A.* (*N.*) *robergi* W. 1907 holotype described and figured, *A. ornatus* Bekker 1921 (*non* Pomp.) in synonymy p. 483 pl. iv figs. 1–5, *A.* (*N.*) *uplandicus* W. 1907 lectotype chosen and figured, considered possibly to come within range of variation of *A.* (*N.*) *laevissimus* S.

p. 486 pl. iv figs. 6–7, pl. v figs. 1–3, *A.* (*N.*) *pseudornatus* **sp. n.** for *A. praetextus* W. 1907 (*non* T.) *partim* [*non* pl. 5 fig. 5] and *A.* (*N.*) **n. sp.** J. 1953 p. 489 pl. v figs. 4–6, pl. vi fig. 1, text-fig. 5 (schematic), *A.* (*N.*) *bottnicus* **sp. n.** p. 494 pl. vi figs. 2–7 text-fig. 6 (schematic) Ordovician (Middle) Sweden (loose blocks); *A.* (*N.*) *cornutus holmi* S. recorded p. 478; *A. robergi* Kummerow 1927 (*non* W.) referred to *A. cornutus* Pander p. 483, JAANUSSON Ark. Min. 1 15 1953.

Asaphus striatus p. 55, "*A*" sp. div. p. 64, *A. ludibundus* p. 65, *A.* (*Neoasaphus*) *bottnicus* Jaanusson p. 89, STØRMER **73**.

Asaphus sp. p. 179, WILLIAMS **84**.

Asioptychaspis Kobayashi 1935 [recte 1933] a synonym of *Ptychaspis* Hall 1863 p. 215, HUPÉ **28**.

Asioptychaspis Kobayashi 1933 a subjective synonym of *Ptychaspis* Hall 1863 p. 888, LOCHMAN **48**.

Asteropyge from Middle Devonian of Haute-Garonne p. 121, DESTOMBES **13**.

Asteropyge australis, *A. kochi* p. 166, *A. paituna* Clarke p. 167, KEGEL **39**.

Asthenopsis Whitehouse 1939 referred to Solenopleurinae **subfam. n.** p. 195, HUPÉ **28**.

Asthenopsis Whitehouse provisionally considered distinct from *Solenopleura* Angelin p. 8, WESTERGÅRD **79**.

Astroproetus Begg 1939 considered of generic status and referred to Denemarkiinae **subfam. n.** p. 217, HUPÉ **28**.

Astycoryphe R. & E. Richter 1919 referred to Astycoryphinae **subfam. n.** p. 217, *A. gracilis* Barrande text-fig. 128 (2), HUPÉ **28**.

Astycoryphe gracilis Barrande 1846 p. 614, PILLET **54**.

Astycoryphinae **subfam. n.** [Tropidocoryphidae] for *Astycoryphe* R. & E. Richter 1919 p. 217, HUPÉ Traité de Paléontologie **3** 1953.

Ataktaspis [misspelt *Atakaspis*] Lochman & Duncan 1944 referred to Eochuanginae p. 210, HUPÉ **28**.

Athabaskia Raymond 1928 referred to Ptarmigania-series of Bathyuriscinae **subfam. n.** p. 185, HUPÉ **28**.

Atops Emmons 1844 referred to Atopsidae **fam. n.** p. 194, HUPÉ **28**.

Atopsidae [sic] **fam. n.** [Ptychoparioidae] for *Atops* and *Pseudatops* p. 194, HUPÉ Traité de Paléontologie **3** 1953.

Aulacodiscidae **fam. n.** [Eodiscoidae] for *Aulacodiscus* Westergård 1936 [recte 1946] p. 170, HUPÉ Traité de Paléontologie **3** 1953.

Aulacodiscus Westergård 1936 [recte 1946] type of Aulacodiscidae **fam. n.** p. 170, HUPÉ **28**.

Aulacopleurinae (Angelin 1854 emend.) referred to Olenidae and taken to include *Proaulacopleura*, ? *Ulrichaspis*, *Paraaulacopleura* and *Aulacopleura* p. 207, HUPÉ **28**.

Autolichas Reed 1923 a synonym of *Lichas* Dalman 1827 p. 227, HUPÉ **28**.

Avonina Lochman 1936 referred to Raymondinidae p. 199, HUPÉ **28**.

Avoninidae Lochman 1936 a synonym of Raymondinidae Clark 1924 [quod vide] p. 199, HUPÉ **28**.

Bailiaspis Resser 1936 referred to Bailiellinae **subfam. n.** p. 194, HUPÉ **28**.

Bailiaspis dalmani (Ang.), *B. glabrata* (A.) listed p. 38, WESTERGÅRD **79**.

Bailiella Matthew 1885 referred to Conocoryphidae (Bailiellinae) **subfam. n.**, *B. ulrichi* Resser & Endo type of *Tangshihella* **gen. nondescr.** p. 194, HUPÉ **28**.

Bailiella cobboldi Resser p. 237, STUBBLEFIELD *in* WHITTARD ET AL. **80**.

Bailiella emarginata (Linrs.), *B. fröensis* Wgård, *B. tenuicincta* (L.), *B. impressa* (L.), *B. aequalis* (L.) listed p. 38, WESTERGÅRD **79**.

Bailiellinae **subfam. n.** [Conocoryphidae] for *Parabailiella*, *Bailiella*, *Bailiaspis* and *Tangshihella* **gen. nondescr.** p. 194, HUPÉ Traité de Paléontologie **3** 1953.

Barrandia McCoy 1849 may belong to Nileinae p. 221, or to Ogygiocarinae [quod vide] p. 223, HUPÉ **28**.

Barrandia cf. *cordai* McCoy p. 239, WHITTARD *in* WHITTARD ET AL. **80.**

Barrandia ? sp. p. 179, WILLIAMS **84.**

"*Barrandia ?* sp." Walcott 1884 p. 137 pl. xxvi figs. 15–16, listed p. 22, HINTZE **24.**

Basidechenella see *Dechenella.*

Basidechenella Richter 1912 considered of generic status and referred to Dechenellidae p. 217, HUPÉ **28.**

Basilicoides Harrington 1937 see Asaphinae.

Basilicus Salter 1849 see Asaphinae

Basilicus isidrensis **sp. n.** Ordovician Argentina (Mendoza) p. 6 text-fig. 8, RUSCONI Bol. paleont. B. Aires No. 25 1953.

Basilicus tyrannus (Murchison) p. 184, *B.* cf. *t.* p. 184, *B. peltastes* (Salter) p. 191, *B.* sp. p. 193, WILLIAMS **84.**

Basilicus sp. p. 42, KAY **36.**

Bathynotellus Lermontova 1940 referred to Bathynotidae **fam. n.** p. 179, HUPÉ **28.**

Bathynotellus Lermontova 1940 referred to Bathynotidae **fam. n.** p. 889, LOCHMAN **49.**

Bathynotidae Hupé 1952 [recte **fam. n.**] for *Bathynotus* Hall 1860 and *Bathynotellus* Lermontova 1940 p. 179, Komaspidae considered related p. 229, HUPÉ Traité de Paléontologie **3** 1953 [April].

Bathynotidae **fam. n.** to include *Bathynotus* Hall 1860 and *Bathynotellus* Lermontova 1940 p. 889, relations discussed p. 890, LOCHMAN J. Paleont. **27** 6 1953 [December].

Bathynotus Hall 1860 referred to Bathynotidae **fam. n.** p. 179, HUPÉ **28.**

Bathynotus Hall 1860 referred to Bathynotidae **fam. n.** p. 889, LOCHMAN **49.**

Bathyurellinae **subfam. n.** [Bathyuridae] for *Bathyurellus* Billings 1865 and ? *Leptopilus* p. 198, HUPÉ Traité de Paléontologie **3** 1953.

Bathyurellus Billings 1865 referred to Bathyuridae (Bathyurellinae) **subfam. n.** p. 198, HUPÉ **28.**

Bathyurellus abruptus Billings 1865 lectotype (pygidium) selected and figured p. 660 pl. lxix figs. 26, 27, *B. nitidus* B. lectotype selected and cast figured p. 661 pl. lxvii figs. 9, 13–15, text-figs. 4A-B, *B. marginiatus* B. lectotype selected p. 661, *B. formosus* and *B. expansus* B. p. 661, *B. ? flabellus* Bradley 1925, *B. glensaulensis* (Reed) 1910, *B. teicherti* Poulsen 1937, *B. pogonipensis* Hintze 1953 listed p. 662; *B. validus* Billings 1865 of which *B. fraternus* B. (tentatively) and *B. f.* of Raymond 1925 considered synonyms lectotype selected, type of *Uromystrum* **gen. n.** [quod vide] p. 658, *B. permarginatus* Cullison 1944 referred to *Peltabellia* **gen. n.** p. 662, WHITTINGTON **81.**

Bathyurellus pogonipensis **sp. n.** Ordovician (Middle) p. 138 pl. x figs. 11–19, *B. ?* sp. p. 140 pl. x fig. 6 Ordovician (Lower) U.S.A. (Utah and Nevada); *B. validus* Billings probably a synonym of *B. fraternus* B. p. 139, *Niobe ? feitleri* Holliday 1942 probably belongs to *B.* p. 140, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Bathyurellus teicherti Poulsen p. 18, ADAMS & COWIE **1.**

Bathyuridae Miller 1889 assigned to Solenopleuroidae and divided into Bathyurinae and Bathyurellinae **subfamm. n.** p. 198, HUPÉ **28.**

Bathyuridae Walcott 1886 removed from Corynexochoidae to Illaenicae **superfam. n.**, diagnosis of family given and extra-American records discussed, Leiostegiidae considered possibly to be related; following genera included *Bathyurus* Billings 1859, *Raymondites* Sinclair 1944, *Bolbocephalus* Whitfield 1890, *Rananasus* Cullison 1944, *Petigurus* Raymond 1913, *Uromystrum* **gen. n.**, *Bathyurellus* B. 1865, *Jeffersonia* Ulrich 1927, *Peltabellia* **gen. n.**, *Lutesvillia* C. 1944, *Goniotelus* U. 1927, *Goniotelina* **gen. n.**, *Platyantyx* **gen. n.** and tentatively *Eleutherocentrus* Clark 1935, WHITTINGTON **81.**

Bathyuridae — suggested that *Licnocephala* Ross 1951 is a Bathyurid p. 643, ROSS **59.**

Bathyurina Poulsen 1937 considered possibly congeneric with *Goniotelina* **gen. n.** p. 669, WHITTINGTON **81.**

Bathyurinae **subfam. n.** [Bathyuridae] for *Goniotelus*, *Bathyurus* Billings 1859, *Petigurus* and *Eleutherocentrus* p. 198, HUPÉ Traité de Paléontologie **3** 1953.

Bathyuriscidae see Dolichometopidae.

Bathyuriscidella Rasetti 1948 referred to Bathyuriscinae **subfam. n.** p. 184, HUPÉ **28.**

Bathyuriscinae **subfam. n.** [Dolichometopidae] to include *Klotziella*, *Poliellina*, *Poliellaspis*, *Clavaspidella*, *Corynexochides*, *Poliella*, *Dolichometopus*, *Amphoton*, *Bathyuriscus*, *Bathyuriscidella*, *Parkaspis*, *Fuchoiua* [recte *Fuchouia*] , and the following Ptarmigania-series *Ptarmigania*, *Ptarmiganoides*, *Dolichometopsis*, *Stephanaspis* and *Athabaskia* p. 183, HUPÉ Traité de Paléontologie **3** 1953.

Bathyuriscus Meek 1873 referred to Bathyuriscinae **subfam. n.** p. 184, *B. formosus* Deiss text-fig. 119 (1), HUPÉ **28.**

Bathyuriscus recorded, particularly *B. obrutchevi* Lerm. p. 918, KOROLYUK **43.**

Bathyurus Billings 1859 referred to Bathyurinae **subfam. n.** p. 198, HUPÉ **28.**

Bathyurus amplimarginatus Billings, *B.* sp. nov. ? [undescr] p. 18, ADAMS & COWIE **1.**

Bathyurus extans (Hall) 1847 lectotype described and figured p. 651 pl. lxv figs. 1–9, 11–13, 17, *B. ? angelini* Billings 1859 p. 653 pl. lxv fig. 18, *B. ? acutus* Raymond 1913, *B. johnstoni* R. 1913, *B. magnus* Wilson 1947, *B. superbus* R. 1910 p. 653 pl. lxix fig. 28 ; "*B.*" *pogonipensis* Hall & Whitfield 1877 considered of *Bathyurus* type, *B. longispinus* (Walcott) 1876 referred to *Raymondites* p. 654, *B. arcuatus* Billings 1865 type of *Platyantyx* **gen. n.** [quod vide] p. 667, *B. amplimarginatus* B. 1859 referred to *Peltabellia* **gen. n.** p. 662, *B. strenuus* B. 1865 type of *Psephosthenaspis* **gen. n.** p. 673, WHITTINGTON **81.**

Bathyurus longispinus Walcott, *B. spiniger* (Hall) p. 42, KAY **36.**

Bathyurus (*Raymondites*) see *Raymondites*.

Bayfieldia Clark 1924 referred to Eurekiidae **fam. n.** p. 208, but tentatively to Lloydidae or Punctulariidae p. 199, HUPÉ **28.**

Bellaspidella Rasetti 1945 referred to Punctulariidae p. 199, HUPÉ **28.**

Bellaspis Rasetti 1945 referred to Punctulariidae p. 199, HUPÉ **28.**

Bellefontia Ulrich 1924 see Ogygiocarinae.

Bellefontia Ulrich 1924 discussed, *B. ibexensis* **sp. n.** p. 141 pl. iv figs. 1–8, *B. chamberlaini* Clark p. 142 pl. iv figs. 9–13 Ordovician (Lower) U.S.A. (Utah) ; *B. acumininiferentis* Ross referred to *Xenostegium* p. 241, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Bellefontia ? cf. *B. ? acumininiferentis* Ross, *B.* sp. p. 911, BASS & NORTHROP **4.**

Benthamaspis referred to Komaspidae p. 895, LOCHMAN **49.**

Benthamaspis diminutiva **sp. n.** p. 142 pl. xiii figs. 9–12 Ordovician (Lower) U.S.A. (Utah), HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Benthamaspis aff. *problematica* Poulsen p. 18, ADAMS & COWIE **1.**

Bergeronia see *Protolenus*.

Berkeia Resser 1937—*Sulcocephalus* Wilson 1948 a subjective synonym p. 888, LOCHMAN **48.**

Bernia Frederickson 1949 referred to Elrathininae **subfam. n.** p. 192, to Solenopariidae **fam. n.** p. 195, HUPÉ **28.**

Bernia obtusa Frederickson 1949 p. 559 pl. lix fig. 1, BERG **5.**

Bernicella Frederickson 1949 referred to Leiosteginae p. 210, HUPÉ **28.**

Bernicella Frederickson 1949 a subjective synonym of *Cheilocephalus* Berkey 1898 p. 887, LOCHMAN **48.**

Bevanopsis **gen. n.** [Encrinuridae] for type *B. ulrichi* **sp. n.** p. 32 pl. xiii figs. 21–25 Ordovician (Middle) U.S.A. (Va), *B. buttsi* n. sp. table 1 [? error pro *Cybeloides buttsi* **sp. n.**], COOPER Mem. geol. Soc. Amer. No. 55 1953.

Bicaspis Resser 1938 a synonym of *Protypus* Walcott 1886 p. 185, HUPÉ **28.**

Bienella Lochman 1944 referred to Leiosteginae p. 210, Hupé **28.**

Bigotina Cobbold 1935 referred to Protolenidae (Bigotininae) **subfam. n.** p. 180, *B. bivalta* [sic] C. text-fig. 64, Hupé **28.**

Bigotina Cobbold 1935 discussed and referred to Bigotininae p. 155, *B. bivallata* C. considered heterogeneous text-fig. 47, *Redlichia ?* sp. Kobayashi 1944 may belong to *B. b.* p. 212, Hupé **29.**

Bigotininae Hupé 1952 [recte **subfam. n.**] [Protolenidae] for *Bigotina* Cobbold 1935 p. 180, Hupé Traité de Paléontologie **3** 1953.

Bigotinops Hupé [nom. nud.] referred to Protolenidae (Termierellinae) p. 180, Hupé **28.**

Bigotinops **gen. n.** [Protolenidae (Termierellinae)] pp. 155, 221 for type *B. dangeardi* **sp. n.** Cambrian (Lower) Morocco (Anti-Atlas) p. 221 pl. ix fig. 16 text-fig. 49 [gen. et sp. nomina nuda 1952], *B.* young form attributed pl. ix fig. 14, Hupé Notes Serv. Min. Maroc No. 103 1953.

Billingsaspis Resser 1935 may be a synonym of *Bolaspis* R. 1935 [quod vide] p. 192, Hupé **28.**

Billingsura Ulrich see *Kirkella.*

Birmanites Sheng 1934 [erroneously ascribed to Kobayashi 1950] referred to Anomocaridae p. 212, Hupé **28.**

Blackwelderioides nom. nud. [Damesellidae] p. 205, Hupé **28.**

Blayacina Cobbold 1931 referred to Protoleninae **subfam. n.** p. 180, Hupé **28.**

Blayacina Cobbold 1931 discussed with diagnosis p. 219, Hupé **29.**

Blountia Walcott 1916 *Stenocombus* Raymond 1937 a subjective synonym p. 888; *B.* (*Homodictya*) Raymond 1937—*Protillaenus* R. 1937 a subjective synonym p. 886, Lochman **48.**

Blountia sp. p. 281, Wilson [Z.R. **90** 11 title **119**].

Blountiella Resser 1938 referred tentatively to Pilgrimiidae **fam. n.**, but may belong to Blountiidae p. 201, Hupé **28.**

Blountiidae Lochman 1944 referred to Asaphiscoidae **superfam. n.** and taken to include *Blountia* and *Blountina* p. 202, *Blountiella* may also belong p. 201 footnote, Hupé **28.**

Blountina Lochman 1944 — Shaw's opinion that *B.* is a subjective synonym of *Protillaenus* Raymond 1937 not accepted p. 886, Lochman **48.**

Bolaspidella Resser 1937 referred tentatively to Amecephalinae **subfam. n.** p. 192, Hupé **28.**

Bolaspidella Resser 1937—*Howellaspis* Lochman & Denson 1944 a subjective synonym p. 888, Lochman **48.**

Bolaspidella Resser 1937—*Apedopyganus* [recte *Apedopyanus*] Raymond 1937 and *Hysteropleura* Raymond 1937 accepted as synonyms p. 892, Lochman **49.**

Bolaspidella schucherti (Raymond) 1937 p. 141, Shaw **65.**

Bolaspis Resser 1935 referred to Nepeidae, *B. labrosum* (Walcott) text-fig. 121 (2), *Billingsaspis* R. 1935 may be a synonym of *Bolaspis* p. 192, Hupé **28.**

Bolaspis referred to Nepeidae p. 892, Lochman **49.**

Bolbocephalus Whitfield 1890 may possibly belong to Dimeropygidae **fam. n.** p. 198, Hupé **28.**

Bolbocephalus Whitfield 1890 discussed and referred to Bathyuridae, *B. seelyi* (W.) 1886 type material described and figured p. 655 pl. lxvi figs. 1–10, 12–14, 17, 21, 22, text-figs. 2 A-C (reconstructions), *B. ?* sp. ind. p. 657 pl. lxvi figs. 11, 15, 16; *B. glaber*, *B. angustisulcatus* and *B. groenlandicus* Poulsen and other spp. of *B.* discussed p. 657; *B. ? truncatus* W. 1890 tentatively associated with *Strigigenalis cassinensis* **gen. et sp. n.** p. 657, Whittington **81.**

Bolbocephalus sp. p. 143 pl. ix fig. 17, Hintze **24.**

Bondonella Hupé [nom. nud.] referred to Holmiinae **subfam. n.** p. 176, Hupé **28.**

Bondonella **gen. n.** [Olenellidae (Holmiinae)] p. 135 for type *B. typica* **sp. n.** [nom. nud. 1952] including in synonymy *Wanneria jaqueti* Neltner & Pootey 1949 pl. 6 figs. 1–5 [but see *Neltneria* **gen. n.**] p. 136 pl. iv figs. 2–5, 12, pl. xi fig. 27, text-fig. 27 (reconstruction) Cambrian (Lower) Morocco (Anti-Atlas), *B.* sp. p. 56, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Bonnaspis Resser 1936 referred to Corynexochinae **subfam. n.** p. 185, HUPÉ **28.**

Bonneterrina Lochman 1936 referred to Parasolenopleuridae **fam. n.** p. 189, HUPÉ **28.**

Bonneterrina Lochman 1936 — *Piedmontia* Resser 1938 and probably *Holstonia* R. 1938 subjective synonyms p. 887, LOCHMAN **48.**

Bonnia Walcott 1916 referred to Dorypyginae p. 186, HUPÉ **28.**

Bonniella Resser 1937 referred tentatively to Dorypyginae p. 186, HUPÉ **28.**

Bonniopsis Poulsen 1946 [recte 1947] referred to Dorypyginae p. 186, HUPÉ **28.**

Bowmania recorded p. 6, HINTZE **24.**

Bowmania cf. *B. americana* (Walcott) p. 911, BASS & NORTHROP **4.**

Bowmannia [sic] Walcott 1925 referred to Emmrichellidae p. 200, HUPÉ **28.**

Brachyaspidion Miller 1936 referred to Plethopeltidae p. 188, HUPÉ **28.**

Brachyaspidion Miller 1936 referred to Kingstoniidae p. 890, LOCHMAN **49.**

Brachyaspis Salter 1866 see Asaphinae.

Brachymetopidae (Přibyl 1950) considered of family status and referred tentatively to Proetoidae, taken to include *Brachymetopus*, *Cheiropyge* and ? *Cordania* p. 220, HUPÉ **28.**

Brachymetopus spp. nov. [undescr.] p. 41, compared with *B. strezelecki* McCoy var. *uralicus* Weber and *B.* sp. No. 3 Weber p. 99, STUBBLEFIELD **74.**

Brachymetopus (*Coignouina*) see *Coignouina*.

Brassicicephalus Lochman 1940 referred to Pilgrimiidae **fam. n.** p. 201, *B. wolfensis* L. text-fig. 123 (4), HUPÉ **28.**

Brassicicephalus Lochman 1940 referred to Raymondininae p. 891, LOCHMAN **49.**

Brevidiscinae Kobayashi 1943 accepted as a subfamily of Eodiscidae p. 169, HUPÉ **28.**

Brevidiscus troyensis Kobayashi text-fig. 112 (5), HUPÉ **28.**

Brevitermierella **subgen. n.** of *Termierella* **gen. n.** [quod vide].

Bridgeia Lochman 1944 belongs to Genevievellidae **fam. n.** or to Menomoniidae p. 210, HUPÉ **28.**

Bridgeia provisionally excluded from Menomoniidae p. 893, LOCHMAN **49.**

Briscoia peladense **sp. n.** Cambrian (Upper) Argentina (Mendoza) p. 7 [unillustr.], RUSCONI Bol. paleont. B. Aires No. 25 1953.

Briscoia schucherti Ulrich & Resser p. 557, BERG **5.**

Briscoia sp. p. 911, BASS & NORTHROP **4.**

Broeggerolithus broeggeri (Bancroft) p. 242, *B. transiens* horizon discussed on errata slip, WHITTARD *in* WHITTARD ET AL. **80.**

Brongniartella Reed 1918 referred to Homalonotinae **subfam. n.** p. 233, HUPÉ **28.**

Bronteopsis Nicholson & Etheridge 1879 referred to Styginidae p. 224, HUPÉ **28.**

Bronteopsis gregaria Raymond p. 24 pl. ix figs. 1–7, 12–16, *B. brumleyi* **sp. n.** p. 25 pl. ix figs. 8–10, *B. tennesseensis* **sp. n.** p. 25 pl. ix fig. 11 Ordovician (Middle) U.S.A. (Va and Te), COOPER Mem. geol. Soc. Amer. No. 55 1953.

Bronteopsis scotica [erroneously called proparian] reconstructions (after Whittington) text-figs. 13.31 C–D, SHROCK & TWENHOFEL **66.**

Bronteus romanovskii Web., *B.* sp. p. 1044, KOROLEVA **42.**

Bumastus aff. *ioxus* Hall p. 20, ADAMS & COWIE **1.**

Bumastus milleri (Billings) p. 42, KAY **36.**

Bumastus sp. p. 845, SINCLAIR **68**.

Burlingia laevis Wgård listed p. 40, WESTERGÅRD **79**.

Burlingioidae Richter 1932 accepted for Burlingiidae Walcott 1908 p. 216, HUPÉ **28**.

Burmeisterella Reed 1918 referred to Homalonotinae **subfam. n.** p. 233, HUPÉ **28**.

Burmeisteria Salter 1865 referred to Trimerinae **subfam. n.** p. 233, HUPÉ **28**.

Burnetia ectypa Resser text-fig. 122 (4), HUPÉ **28**.

Burnetiidae Resser 1942 accepted unaltered, and referred to Solenopleuroidae p. 197, HUPÉ **28**.

Bynumia Walcott 1924 referred to Plethopeltidae p. 188, *B. elegans* Resser text-fig. 120 (5), *B. venusta* R. text-fig. 9 (8) line drawing, HUPÉ **28**.

Bynumiella Resser 1942 referred to Plethopeltidae p. 188, HUPÉ **28**.

Bynumiella ? oklahomensis Resser 1942 congeneric with *Kazelia* Walcott & Resser 1924 [quod vide] p. 890, LOCHMAN **49**.

Bythicheilus Resser 1937 referred tentatively to Iraniinae **subfam. n.** p. 193, HUPÉ **28**.

Caborcella Lochman 1948 referred to Antagmidae **fam. n.** p. 192, HUPÉ **28**.

Callavia Matthew 1897 referred to Holmiinae **subfam. n.** p. 176, HUPÉ **28**.

Callavia Matthew 1897 assigned only tentatively to Holmiinae p. 125, *C. callavei* (Lapworth) recorded from Morocco (Anti-Atlas) p. 135; *C. termieri* Neltner & Poctey 1949 *partim* [pl. 1 figs. 2–4, 6] referred to *Longianda* **gen. n.** as *L. termieri* nov. spec. p. 202, *partim* [pl. 1 fig. 1] tentatively to *Saukianda* cf. *andalusiae* R. & E. Richter p. 201 but to ? *Pseudosaukianda lata* **sp. n.** p. 284, *partim* [pl. 2 fig. 1] to ? *P. spinifera* **sp. n.** p. 284; *C. andalusiae* of G. & H. Termier 1950 referred *partim* [pl. 186 fig. 13] to ? *P. lata*, *partim* [pl. 186 figs. 15, 17] to ? *L. termieri* p. 284, *C.* cf. *crosbyi* of Hupé & Abadie 1950 to *Fallotaspis tazemmourtensis* **sp. n.** p. 52, HUPÉ **29**.

Callavia bröggeri (after Walcott) text-figs. 13.31 I, 13.35 H, SHROCK & TWENHOFEL **66**.

Callavia spp. recorded p. 237, STUBBLEFIELD *in* WHITTARD ET AL. **80**.

Calliops Delo 1935—Appalachian occurrences discussed, *C. callicephala* (Hall) 1847 p. 33 pl. xvi fig. 12, *C. annulata* (Raymond) 1905 p. 33, *C. gracilens* (R.) p. 34 pl. xv figs. 4–7, 15, *C. buttsi* **sp. n.** including *Pterygometopus* sp. Butts 1941 *partim* p. 34 pl. xiv figs. 8–14, *C. declivis* Ulrich and Delo 1940 *partim* [*non* pl. 11 figs. 16–17] p. 35 pl. xv figs. 1–3, 8–12, *C. angusta* **sp. n.** p. 35 pl. xiv figs. 1–6, *C. mesleri* **sp. n.** including *P.* sp. Butts 1941 [pl. 85 figs. 1–3] p. 36 pl. xvi figs. 1–6, *C. strasburgensis* U. & D. including *P.* sp. ? Butts 1941 [pl. 82 figs. 9–13] type material discussed p. 37 pl. xvii figs. 1–15 [see also *Ligometopus typus* U. & D.], *C. loxorachis* **sp. n.** p. 37 pl. xvi figs. 7–11, 14, *C. brevipostica* **sp. n.** p. 38 pl. xviii fig. 7, *C. callirachis* **sp. n.** p. 39 pl. xviii figs. 1–6, 8–14, *C. troosti* (Safford and Vogdes) 1889 for *Chasmops t.* S. & V. holotype described and refigured p. 39 pl. xiv fig. 7, *C.* aff. [cf. on pl. expl.] *strasburgensis* U. & D. p. 40 pl. xvi fig. 13 Ordovician (Middle) U.S.A. (Va and Te), COOPER Mem. geol. Soc. Amer. No. 55 1953.

Calliops recorded p. 34, EVITT **16**.

Calliops callicephalus (Hall) p. 44, KAY **36**.

Calliops sp. p. 847, SINCLAIR **68**.

Calliops sp. indet. p. 18, ADAMS & COWIE **1**.

Calodiscinae Kobayashi 1943 accepted as subfamily of Eodiscidae p. 169, HUPÉ **28**.

Calodiscus lakei Rasetti revised identification of *Microdiscus lobatus* of Gigout 1937 from Morocco p. 74, HUPÉ **29**.

Calodiscus lobatus (Hall) text-fig. 112 (2), HUPÉ **28**.

Calvinella recorded p. 6, HINTZE **24**.

Calymene juxtaposition with chiastolite crystals (after Lacroix) p. 289 dl. ii fig. 1, BUCHER **8**.

Calymene recorded p. 28, LAMONT **44.**

Calymene aculeata Angelin 1851 type of *Parasolenopleura* **gen. n.** p. 21, WESTERGÅRD **79.**

Calymene aragoi Rouault p. 227 footnote pl. ix figs. 25–28, HUPÉ **29.**

Calymene blumenbachi (Brongniart) *C. nodulosa* Shirley p. 199, *C.* sp. p. 196, WILLIAMS **84.**

Calymene blumenbachi from Ireland line drawing text-fig. 11 (8), CHARLESWORTH **9.**

Calymene blumenbachii of Charlesworth 1953 (*non* Brongniart) referred to *C. allportiana* Salter, but neither sp. yet found in Ireland p. 435, LAMONT **45.**

Calymene senaria showing pink colour, GARRETSON **20.**

Calymene senaria Conrad [ascribed to Hall on expl. fig.] pp. 44, 45 figs. 65 (3, 4), KAY **36.**

Calymene sp. p. 128 pl. xii figs. 2–4, MORENO CARDONA & LINARES **50.**

Calymene sp. p. 65, STØRMER **73.**

Calymenella Bergeron 1890 referred to Eohomalonotinae **subfam. n.** p. 233, HUPÉ **28.**

Calymenidae Milne Edwards 1840 taken to include *Ptychometopus* Schmidt, *Synhomalonotus* Pompeckj and *Calymene* Brongniart p. 232, HUPÉ **28.**

Calymenidius Rasetti 1944 referred to Glyptometopidae **fam. n.** p. 198, but may belong to Pharostomidae **fam. n.** p. 232, HUPÉ **28.**

? Calymenidius tuberculatus Rasetti 1944 p. 140, SHAW **65.**

Calymenoidae Swinnerton 1915 taken to include Pharostomidae **fam. n.**, Calymenidae and Homalonotidae p. 232, HUPÉ **28.**

Calymenopsis Mun.-Chalm. & Berg. 1895 referred tentatively to Pharostomidae **fam. n.** p. 232, HUPÉ **28.**

Calyptaulax Cooper 1930 a subjective synonym of *Homalops* Remelé 1885 p. 103 footnote, JAANUSSON **31.**

Calyptaulax recorded p. 34, EVITT **16.**

Calyptaulax holstonensis (Raymond) p. 41 pl. xv figs. 13–14, 16–18, COOPER **12.**

Calyptaulax [*Homalops*] *norvegicus* p. 94, STØRMER **73.**

Calyptaulax sp. p. 852, SINCLAIR **68.**

Calyptomma Resser 1942 referred tentatively to Komaspidae p. 229, HUPÉ **28.**

Calyptomma Resser 1942 *non* Tattersall 1909 renamed *Princetonella* **nom. n.** p. 886, LOCHMAN **48.**

Camaraspidae **fam. n.** to include *Camaraspis* Ulrich & Resser 1925, *Camaraspoides* Frederickson 1949, *Kazelia* Walcott & Resser 1924 and *Koldinia* W. & R. 1924 p. 889, LOCHMAN J. Paleont. 27 6 1953.

Camaraspis Ulrich & Resser 1924 referred tentatively to Agraulidae p. 187, HUPÉ **28.**

Camaraspis Ulrich & Resser 1925 referred to Camaraspidae **fam. n.** p. 889, *C. guillermoi* and *C. onyx* Richter & Richter excluded from *C.* p. 890, LOCHMAN **49.**

Camaraspis guillermoi R. & E. Richter 1940 type of *Alanisia* **gen. n.** p. 207, *C. onyx* R. & E. R. 1940 referred tentatively to *Strenuella* Matthew emend. p. 234 footnote, *C. onyx* of G. & H. Termier 1950 *partim* [pl. 191 fig. 17] to ? *Kingaspis* and ? *Strenuella* p. 284, HUPÉ **29.**

Camaraspoides [misspelt *Camaraspidoides*] Frederickson 1949 referred to Solenopariidae **fam. n.** p. 195, HUPÉ **28.**

Camaraspoides Frederickson 1949 referred to Camaraspidae **fam. n.** p. 889, LOCHMAN **49.**

Canotagnostus Rusconi a subjective synonym of *Huarpagnostus* R. to which *C. huarpeanus* R. is referred p. 6, RUSCONI **60.**

Caphyra radians Barrande text-fig. 125 (9), HUPÉ **28.**

Carnicia see *Drevermannia.*

Carnicia R. & E. Richter 1928 referred to Cyrtosymbolinae **subfam. n.** p. 217, HUPÉ **28.**

Carolinites Kobayashi 1940—*Dimastocephalus* Stubblefield 1950 accepted as a synonym p. 229, HUPÉ **28.**

Carolinites Kobayashi 1940 relations to *Goniophrys* Ross 1951 discussed p. 144, *C. killaryensis utahensis* **subsp. n.** p. 145 pl. xx figs. 10–13, *C. genacinaca* Ross p. 145 pl. xx figs. 7–9, *C. g. nevadensis* **subsp. n.** p. 146 pl. xx figs. 3–6, *C.* sp. A. p. 146 pl. xx figs. 2 a–c Ordovician (Lower and Middle) U.S.A. (Utah and Nevada), HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Catillicephala Raymond 1938 referred to Raymondinidae p. 199, *C. impressa* Rasetti text-fig. 122 (8), HUPÉ **28.**

Catillicephala lata (Raymond) 1937 p. 141, SHAW **65.**

Catillicephalidae see Cephalocoeliidae.

Cedaria see Cedariinae **subfam. n.**

Cedaria prolifica Walcott text-fig. 9 (12) line drawing, HUPÉ **28.**

Cedariidae Raymond 1937 referred to Utioidae **superfam. n.** (but may belong to Asaphiscoidae), and taken to include *Cedaria* and *Cedarina* p. 201, HUPÉ **28.**

Cedariidae Raymond 1937 classified into Cedariinae **subfam. n.**, Llanoaspinae Lochman 1944 and Raymondininae Clark 1924 emend., family considered of polyphyletic origin p. 891, LOCHMAN **49.**

Cedariinae **subfam. n.** [Cedariidae] to include *Cedaria* Walcott 1925 and *Cedarina* Lochman 1940 p. 891, LOCHMAN J. Paleont. **27** 6 1953.

Cedarina see Cedariinae **subfam. n.**

Cedarina Lochman 1940 [erroneously ascribed to Raymond 1937] referred to Cedariidae p. 201, HUPÉ **28.**

Centropleura Angelin 1854 geographical distribution text-fig. 96 (map), HUPÉ **28.**

Centropleura lovéni (Ang.), *C. angustata* Wgård, *C. angelini* W. listed p. 36, WESTERGÅRD **79.**

Centropleurinae Angelin 1854 taken to include *Centropleura*, *Anopolenus* and *Clarella* p. 181, HUPÉ **28.**

Cephalocoeliidae Raymond 1937 a synonym of Raymondinidae Clark 1924 [quod vide] p. 199, HUPÉ **28.**

Ceratagnostus Whitehouse 1939 referred to Hastagnostidae p. 173, *C.* glabella (diagrammatic) text-fig. 114 (8), HUPÉ **28.**

Ceratocephala-type glabella (schematic) text-fig. 62 (2), HUPÉ **28.**

Ceratocephalidae R. & E. Richter 1925 emend. Prantl & Přibyl 1949 classified following P. & P. into Ceratocephalinae, Dicranurinae and Miraspinae p. 231, HUPÉ **28.**

Ceratopyge forficula text-figs. 70 (13, 14), HOLTEDAHL **25.**

Ceratopygidae Raymond 1913 emend. referred to Asaphiscoidae **superfam. n.** and classified into Ceratopyginae, Hysteroleninae and Mansuyellinae p. 204 ; *Mansuyia* and other genera excluded as Mansuyinae **subfam. n.** of Leiostegiidae p. 208, HUPÉ **28.**

Ceratopyginae Troedsson 1937 emend. taken to include *Ceratopyge* and *Diceratopyge* p. 204, HUPÉ **28.**

Ceraurina glabra Butts 1926 considered a homonym of *Chirurus glaber* Angelin 1854, renamed *buttsi* **nom. n.** and referred to *Ceraurinella* **gen. n.** p. 30, COOPER **12.**

Ceraurinella **gen. n.** [Cheiruridae] p. 28 for type *C. typa* **sp. n.** p. 29 pl. xii figs. 1–5, 7–8, 15–16, *C. buttsi* **sp. n.** (**nom. n.** for *Ceraurina glabra* Butts-quod vide) holotype refigured p. 30 pl. xii fig. 9, pl. xi fig. 14 Ordovician (Middle) U.S.A. (Va and Ala.), *Chirurus glaber* Angelin 1854 may belong to *C.* p. 30, COOPER Mem. geol. Soc. Amer. No. 55 1953.

Ceraurinus cf. *C. confluens* Barton p. 849, SINCLAIR **68.**

Ceraurinus pompilius (Billings) p. 30 pl. xi figs. 5–7, 9, COOPER **12.**

Ceraurus recorded p. 294, STÄUBLE **72.**

Ceraurus dentatus Raymond & Barton p. 44, *C. pleurexanthemus* Green p. 61, KAY **36.**

Ceraurus dentatus Raymond & Barton, *C.* sp. p. 849, *C. matranseris* Sinclair p. 852, SINCLAIR **68.**

Ceraurus pleurexanthemus Green 1832 discussed and holotype refigured p. 35 pl. v figs. 1–8, pl. vii figs. 1, 2, pl. viii figs. 5–7, text-fig. 1A, *C. p.* var. *montyensis* **var. n.** U.S.A. (New York) immature pygidia described p. 38 pl. v figs. 9–12, pl. vi figs. 1–10, pl. vii figs. 3, 5–12, 21–28, pl. viii figs. 1–4, 8–16, text-fig. 1B (diagrammatic), *C. whittingtoni* **sp. n.** including *C. p.* Whittington 1941 (*non* G.) *partim* [*non* pl. 72 figs. 4–8] p. 39 pl. v figs. 13–16, pl. vi figs. 11–24, pl. vii figs. 4, 13–20, pl. viii figs. 17–25, text-fig. 1C (diagrammatic) U.S.A. (Virginia) Ordovician (Upper), EVITT J. Paleont. 27 1 1953.

Ceraurus ruidus **sp. n.** including *C. pleurexanthemus* Bassler 1919 and Cooper & C. 1946 [*partim*] (*non* Green) p. 27 pl. xi figs. 1–2, 4, 12, 15, pl. xii fig. 6, *C. breviceps* **sp. n.** p. 28 pl. xi figs. 8, 10–11, 13, *C. convexus* **sp. n.** p. 28 pl. xi fig. 3 Ordovician (Middle) U.S.A. (Va), COOPER Mem. geol. Soc. Amer. No. 55 1953.

Chakasskia Poletayeva 1936 referred tentatively to Missisquoiidae **fam. n.** p. 205, HUPÉ **28.**

Chancia Walcott 1925 referred to Amecephalinae **subfam. n.** p. 192, HUPÉ **28.**

Changia Sun 1924 discussed, considered not a synonym of *Quadraticephalus* S. 1924, affinities with Dikelocephalidae suggested p. 889, LOCHMAN **48.**

Changshania Sun 1923 referred to Changshaniidae **fam. n.** p. 212, HUPÉ **28.**

Changshaniidae **fam. n.** [Dikelocephaloidae] for *Changshania* Sun 1923, *Changshanocephalus*, *Dikelocephalites* and *Coreanocephalus* p. 212, HUPÉ Traité de Paléontologie **3** 1953.

Changshanocephalus Sun 1935 referred to Changshaniidae **fam. n.** p. 213, HUPÉ **28.**

Chariocephalus Hall 1863 referred to Komaspidae, *Dartonaspis* Miller 1936 a synonym p. 229, *C. ulrichi* Resser text-fig. 125 (6), HUPÉ **28.**

Chariocephalus Hall 1863—*Dartonaspis* Miller 1936 not a synonym, but all described spp. of *C.* (except the type *C. whitfieldi*) show the characters of *D.* p. 887, LOCHMAN **48.**

Chariocephalus whitfieldi Hall p. 557, BERG **5.**

Chasmops conicophthalma p. 62, *C.* cf. *c.* p. 84, *C.* aff. *odini* p. 64, *C.* sp. and *C. extensa* p. 65, *C.* cf. *e.* p. 78, *C.* aff. *e.* p. 85, *Chasmops* cf. *bucculenta* p. 104, *C. maxima* p. 106, STØRMER **73.**

Chasmops conicopthalma text-fig. 74 (11, 12), *C. extensa* text-fig. 74 (17), HOLTEDAHL **25.**

Chasmops macroura (Sjögren) p. 195, *C.* ? sp. p. 196, WILLIAMS **84.**

Chasmops macrourus Ang. p. 189, JAANUSSON & MARTNA **34.**

Chasmops troosti Safford and Vogdes 1889 referred to *Calliops* [quod vide] p. 39, COOPER **12.**

Chasmops cf. *wesenbergensis* Fr. Schmidt p. 102 text-fig. 3, *C.* sp., JAANUSSON **31.**

Chaunoproetus palensis Richter p. 614, PILLET **54.**

Cheilocephalus Berkey 1898—*Pseudolisania* Kobayashi 1935 and *Bernicella* Frederickson 1949 subjective synonyms p. 887, LOCHMAN **48.**

Cheiruridae Corda 1847 referred to Cheiruroidae, and classified into Cheirurinae, Cyrtometopinae, Sphaerexochinae, Deiphoninae, Areiinae and Staurocephalinae p. 237, HUPÉ **28.**

Cheiruridae see *Ceraurinella* **gen. n.**

Cheirurinae Raymond 1913 emend. Öpik 1937 taken to include *Anacheirurus* Reed, *Ceraurinus* Barton, *Lehua* B., *Cheirurus* Beyrich, *Crotalocephalus* Salter, *Ceraurus* Green and *Krattaspis* Öpik p. 237, HUPÉ **28.**

Cheiruroidae Öpik 1937 accepted for Pliomeridae, Cheiruridae and Encrinuridae p. 236, HUPÉ **28.**

Cheirurus hyperboreus Poulsen p. 20, ADAMS & COWIE **1.**

Cheirurus insignis Beyrich text-fig. 138, HUPÉ **28.**

Cheirurus punctatus Angelin p. 1044, KOROLEVA **42.**

Cheirurus solitarius Billings 1865 type of *Idiorhapha* **gen. n.** [quod vide] p. 675, WHITTINGTON **81.**

Cheirurus sp. p. 1037, BARNES, CLOUD & DUNCAN **3.**

Chilonorria zulupensis **sp. n.** Cambrian (Upper) Argentina p. 5 [unillustr.], RUSCONI Bol. paleont. B. Aires No. 27 1953.

Chirurus glaber Angelin may belong to *Ceraurinus* Barton or to *Ceraurinella* **gen. n.**, *Ceraurina glabra* Butts 1926 considered a homonym p. 30, COOPER **12.**

Chondroparia Lorenz 1906 referred to Lonchocephalidae **fam. n.** p. 197, HUPÉ **28.**

Chosenia Kobayashi 1934 referred to Mansuyinae **subfam. n.** p. 208, HUPÉ **28.**

Choubertella Hupé [nom. nud.] referred to Daguinaspidae p. 176, *C. spinosa* H. [nom. nud.] text-fig. 117 (2) (line drawing), HUPÉ **28.**

Choubertella **gen. n.** [nom. nud. 1952] [Daguinaspidae] p. 143 for type *C. spinosa* **sp. n.** p. 144 pl. iv figs. 8–11 text-fig. 33 (line drawing), *C. lata* **sp. n.** p. 144 pl. v fig. 3, *C. crassioculata* **sp. n.** p. 145 pl. v fig. 2 [all spp. nomina nuda 1952], *C.* sp. ind. (rostral plate) text-fig. 34 Cambrian (Lower) Morocco (Anti-Atlas), HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Clappaspinae **subfam. n.** [Ptychopariidae] for *Clappaspis* and *Anomalocephalus* p. 193, HUPÉ Traité de Paléontologie 3 1953.

Clappaspis Deiss 1939 referred to Ptychopariidae (Clappaspinae) **subfam. n.** p. 193, HUPÉ **28.**

Clarella cf. *impar* (Hicks) listed p. 36, WESTERGÅRD **79.**

Clariondia **gen. n.** [Neoredlichiidae] pp. 151, 188 for type *C. chazani* **sp. n.** p. 189 text-fig. 44 (1), *C.* ? sp. for *Perrector perrectus* of Neltner & Poctey 1949 and G. & H. Termier 1950 *partim* (refigured) p. 189 text-fig. 44 (3) Cambrian (Lower) Morocco (Anti-Atlas), HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Clavagnostidae Howell 1937 accepted as a family for *Clavagnostus* p. 174, HUPÉ **28.**

Clavagnostus calensis Rusc. p. 6, RUSCONI **60.**

Clavaspidella Poulsen 1927 referred to Bathyuriscinae **subfam. n.** p. 184, HUPÉ **28.**

Clelandia utahensis Ross p. 147 pl. iv figs. 15–17, HINTZE **24.**

Clelandia sp. p. 911, BASS & NORTHROP **4.**

Clevelandella Resser 1938 referred tentatively to Parasolenopleuridae **fam. n.** p. 189, HUPÉ **28.**

Cobboldia Lermontova 1940 referred to Hebediscidae p. 168, HUPÉ **28.**

Cobboldia Lermontova 1940 considered Eodiscoidae incertae sedis, *C.* ? *pulchra* **sp. n.** [nom. nud. 1952] Cambrian (Lower) Morocco (Anti-Atlas) p. 113 pl. xi figs. 21–23 [fig. 23 referred on pl. expl. to *Cobboldites* ? sp.], HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Cobboldites comleyensis (Cobbold) text-fig. 112 (3), HUPÉ **28.**

Cobboldites ? sp. p. 111 pl. xi fig. 23 [pygidium of this fig. may not belong, and referred to *Cobboldia* ? *pulchra* p. 114], HUPÉ **29.**

Cobboldus Raw 1936 referred to Holmiinae **subfam. n.** p. 176, HUPÉ **28.**

Coignouina Reed 1943 considered a separate genus and referred to Otarioninae p. 199, HUPÉ **28.**

Collyrolenus Hupé [nom. nud.] referred to Protolenidae (Myopsoleninae) p. 180, HUPÉ **28.**

Collyrolenus **gen. n.** [Protolenidae (Myopsoleninae)] pp. 156, 244 for type *C. staminops* **sp. n.** [nom. nud. 1952] p. 244 pl. x fig. 10 text-fig. 48 (9) line drawing Cambrian (Lower) Morocco (Anti-Atlas), HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Colpocoryphe exsul **sp. n.** Ordovician (late Lower or early Middle) U.S.A. (Florida) p. 4 pl. i figs. 1–2, WHITTINGTON Breviora No. 17 1953.

Comanchia amplooculata p. 556, BERG **5.**

Comluella Hupé [nom. nud.] referred to Strenuellinae **subfam. n.** p. 180, HUPÉ **28.**

Comluella **gen. n.** [Protolenidae (Strenuellinae)] pp. 155, 236 for type *Anomocare platycephalum* Cobbold 1910 Cambrian (Lower) Shropshire text-fig. 56 (12), *C. cobboldi* (Richter) for *A. c.* R. 1919 text-fig. 56 (13), *C. strenuelloides* (C.) for *Micmacca ellipsocephaloides* var. *s.* C. 1910 with synonym *Strenuella calceola* C. 1931 [? and also *Anomocare ? pustulatum* C. 1910] text-fig. 56 (15), *C. linnarsonni* [recte *linnarssoni*] (Kiaer) for *S. l.* Kiaer 1916 p. 237, *C. amouslekensis* **sp. n.** Cambrian (Lower) Morocco (Anti-Atlas) p. 237 pl. xi fig. 6 text-fig. 56 (14), *Asaphiscus iddingsi* of Gigout 1937 referred tentatively to *C.* p. 74, Hupé Notes Serv. Min. Maroc No. 103 1953.

Conaspis Hall 1863 description and comparison, *C. ? angularis* **sp. n.** Cambrian (Upper) U.S.A. (Wisconsin) p. 560 pl. lix fig. 6, *C. parvafrons* Kurtz p. 561 pl. lx fig. 9, *C. perseus* (Hall) 1863 *partim* (pl. 7 fig. 17, pl. 8 fig. 33) holotype refigured p. 561 pl. lx figs. 5–7, *C. tumidus* K. p. 562 pl. lx fig. 8 (orig. of Hall 1863 pl. 7 fig. 18), Berg J. Paleont **27** 4 1953.

Conaspis Hall 1863 referred to Elviniinae Kobayashi emend. p. 206, Hupé **28.**

Conaspis referred to Ptychaspidae Raymond p. 892, Lochman **49.**

Condylopyge glabella (diagrammatic) text-fig. 114 (2), *C. rex* Barrande text-fig. 113 (upper right), Hupé **28.**

Condylopygidae Raymond 1913—Mallagnostidae Howell 1935 a synonym, *Condylopyge, Pleurocteniumand Mallagnostus* included p. 172, Hupé **28.**

Conocephalites depressus Shumard 1861 type specimens believed destroyed, *C. d.* of Resser 1935 and Bridge 1937 does not agree with original description and is conspecific with *Aphelaspis walcotti* Resser 1938 [quod vide], Palmer **53.**

Conocephalites sp. of Bourcart and Le Villain 1929 referred to *Daguinaspis ambroggii* **gen. et sp. n.** p. 49 footnote, Hupé **29.**

Conocoryphe orientalis Lerm. p. 1089, Rezvoĭ **57.**

Conocoryphidae Angelin 1878 [sic] probably polyphyletic but retained provisionally and subdivided into Bailiellinae, Conocoryphinae, Ctenocephalinae and Holocephalinae [quæ vide] p. 193, Hupé **28.**

Conocoryphinae Howell 1937 emend. taken to include *Conocoryphe, Dasometopus* and *Couloumania* p. 194, Hupé **28.**

Conocoryphoidae see Ptychoparioidae.

Conokephalina ornata (Brögg.), *C. suecica* (Wall.) listed p. 38, Westergård **79.**

Conokephalinidae (Walcott 1913 emend.) referred to Ptychaspidoidae **superfam. n.** and taken to include *Conokephalina, Růžičkaia, Lobocephalina* and *Wuhuia* p. 214, Hupé **28.**

Conolichas Dames 1877—*Homolichas* Schmidt 1885 and *Cypholichas* Phleger 1936 synonyms p. 227, Hupé **28.**

Conomicmacca **subgen. n.** of *Micmacca* [quod vide].

Coosella sp. p. 281, Wilson [Z.R. **90** 11 title **119**].

? Coosia huentotiana **sp. n.** Cambrian (Upper) Argentina p. 6 text-fig. 7, Rusconi Bol. paleont. B. Aires No. 27 1953.

Corbinia Walcott 1924 referred to Eurekiidae **fam. n.** p. 208, Hupé **28.**

Coreanocephalus Kobayashi 1935 referred to Changshaniidae **fam. n.** p. 213, Hupé **28.**

Coreolenus n. gen. [nom nud.] p. 104, Hupé **26.**

Coreolenus Hupé [nom. nud.] referred to Protoleninae **subfam. n.** p. 180, Hupé **28.**

Coreolenus **gen. n.** [Protolenidae (Protoleninae)] pp. 156, 215 for type *Protolenus coreanicus* Saito Cambrian (Lower) Korea text-fig. 48 (1), Hupé Notes Serv. Min. Maroc No. 103 1953.

Cornuproetus R. & E. Richter 1919 considered of generic status p. 216, Hupé **28.**

Cornuproetus R. & E. Richter 1919 discussed and divided into *C.* (*Cornuproetus*) s. str., *C.* (*Xiphogonium*) Hawle & Corda 1847, *C.* (*Sculptoproetus*), *C.* (*Lepidoproetus*) Erben 1951, *C.* (*Piriproetus*) E. 1952 p. 600; *C.* (*Cornuproetus*) discussed, *C.* (*C.*) *buchi* H. & C. subspp. characters listed, *C.* (*C.*) *b. taciturnus* Kegel 1926 including *Proetus complanatus* of Ferronnière 1920 and Le Maître 1934 p. 601 text-figs. 1–6, *C.* (*C.*) *b. platykraspedon* E. 1952 p. 603 text-figs. 7–10, *C.* (*C.*) *complanatus* Barrande revision needed p. 602, *C.*(*C.*) *cornutus* Goldfuss and *C.* (*C.*) *subfrontalis* Whidb. p. 614, *C.* (*Piriproetus*) discussed and considered possibly ancestral to *Drevermannia* p. 604, *C.* (*P.*) *ornatissimus* E. 1952 p. 605 text-figs. 22–25, *C.* (*P.*) *amblyops* E. 1952 for *Proetus* cf. *unguloides* Ferronnière 1920 (*non* B.) p. 606 text-figs. 18–21, *C.* (*Lepidoproetus*) *? gosseleti* Barrois 1889 p. 614, PILLET **54.**

Corydocephalus Hawle & Corda 1847 a synonym of *Trochurus* Beyrich 1845 p. 228, HUPÉ **28.**

Corynexochidae Angelin 1854 classified into Corynexochinae **subfam. n.** and Acontheinae p. 185, HUPÉ **28.**

Corynexochides Rasetti 1948 referred to Bathyuriscinae **subfam. n.** p. 184, HUPÉ **28.**

Corynexochina Lermontova 1940 referred to Corynexochinae **subfam. n.** p. 185, HUPÉ **28.**

Corynexochinae **subfam. n.** [Corynexochidae] for *Corynexochus*, *Bonnaspis* and *Corynexochina* p. 185, HUPÉ Traité de Paléontologie **3** 1953.

Corynexochoidae R. & E. Richter 1941 discussed and taken to include ? Proerbiidae, ? Edelsteinaspidae, Dinesidae, Zacanthoididae, Albertellidae, Dolichometopidae, Corynexochidae, Ogygopsidae, Protypidae, Dorypygidae, and Oryctocephalidae, but family limits often indistinct p. 182, HUPÉ **28.**

Corynexochoidae — following Rasetti the post-Cambrian families excluded, Illaenidae, Styginidae and Scutellidae being removed to Illaenicae **superfam. n.** [quod vide] p. 649, WHITTINGTON **81.**

Corynexochus Angelin 1854 referred to Corynexochinae **subfam. n.** p. 185, *C. spinulosus* A. text-fig. 119 (5), HUPÉ **28.**

Corynexochus spinulosus Ang., *C.* cf. *spinulosus* A. listed p. 36, WESTERGÅRD **79.**

Cotalagnostus nudus hyperboreus text-fig. 39 (2) line drawing, HUPÉ **28.**

Couloumania Thoral 1946 referred to Conocoryphinae p. 194, HUPÉ **28.**

Crassifimbria Lochman 1947 referred to Antagmidae **fam. n.** p. 192, HUPÉ **28.**

Crepicephalidae Kobayashi 1935 emend. referred to Asaphiscoidae **superfam. n.** and divided into Crepicephalinae and ? Kopturinae **subfamm. n.** [quæ vide] p. 202, HUPÉ **28.**

Crepicephalina Resser & Endo 1937 [so dated] referred to Crepicephalinae **subfam. n.** p. 202, HUPÉ **28.**

Crepicephalina Resser & Endo 1935 — *Mesocrepicephalus* Kobayashi 1935 a subjective synonym p. 887, LOCHMAN **48.**

Crepicephalinae **subfam. n.** [Crepicephalidae] for *Kochaspis*, *Crepicephalina*, ? *Temnoura*, *Mesocrepicephalus*, *Crepicephalus*, *Tricrepicephalus* and *Uncaspis* p. 202, HUPÉ Traité de Paléontologie **3** 1953.

Crepicephalus Owen 1852 referred to Crepicephalinae **subfam. n.** p. 202, *C. iowensis* (O.) text-fig. 124 (2), HUPÉ **28.**

Crepicephalus Owen 1852—*Sneedvillia* Resser 1938 a subjective synonym p. 887, LOCHMAN **48.**

Croixana bipunctata (Shumard) p. 556, BERG **5.**

Cromus [2 spp. undescr.] recorded p. 28, LAMONT **44.**

Crotalocephalus comparable spp. in L. Devonian of Australasia and N. Africa p. 91, GILL **21.**

Cryphops from Middle Devonian of Haute-Garonne p. 121, DESTOMBES **13.**

Cryptoderaspis Rasetti 1946 referred to Solenopariidae **fam. n.** p. 195, HUPÉ **28.**

Cryptolithidae Angelin 1854 a synonym of Trinucleidae Emmrich 1845 p. 242, HUPÉ **28.**

Cryptolithus discors p. 65, STØRMER **73.**

Cryptolithus emposadensis **sp. n.** Ordovician (Lower) Argentina (Mendoza) p. 4 text-figs. 1 (partial reconstruction)—2, RUSCONI Bol. paleont. B. Aires No. 25 1953.

Cryptolithus tesselatus Green p. 34, EVITT **16.**

Cryptolithus tesselatus Green p. 44 fig. 65 (1), *C. quadrilineus* Whittington p. 44, *C. bellulus* Ulrich p. 66 fig. 65 (2), KAY **36.**

Cryptolithus cf. *C. tessellatus quadrilineus* Whittington p. 294 text-fig. 4, STÄUBLE **72.**

Cryptonymus schlotheimi, *C. weissi*, *C. panderi* and *C. lichtensteini* Eichwald 1825 spp. considered nomina dubia p. 393, JAANUSSON **32.**

Ctenocephalinae Howell 1937 taken to include *Ctenocephalus* and *Elyx* p. 194, HUPÉ **28.**

Ctenocephalus coronatus Barrande text-fig. 121 (6), HUPÉ **28.**

Ctenocephalus exsulans (Linrs.) listed p. 38, WESTERGÅRD **79.**

Ctenopyge spectabilis text-fig. 69 (27), HOLTEDAHL **25.**

Cuyanaspis **gen. n.** [no family assigned] for type ? *Megalaspis empozadensis* [recte *emposadensis*] Rusconi 1953 Ordovician (Lower) Argentina p. 6, RUSCONI Bol. paleont. B. Aires No. 27 1953.

Cybele sp. p. 184, WILLIAMS **84.**

Cybele sp. p. 62, STØRMER **73.**

Cybeloides aff. *loveni* var. *girvanensis* Reed p. 195, WILLIAMS **84.**

Cybeloides virginiensis **sp. n.** p. 31 pl. xiii figs. 1–14, 18–20, *C. buttsi* **sp. n.** [? referred in error to *Bevanopsis* on table 1] p. 32 pl. xiii figs. 15–17 Ordovician (Middle) U.S.A. (Va and Ala), COOPER Mem. geol. Soc. Amer. No. 55 1953.

Cybelopsis Poulsen 1927 so attributed (rather than to Ulrich), pygidial differences from *Pseudomera* considered possibly sexual p. 150, *C.* cf. *C. speciosa* P. p. 152 pl. xxv figs. 5–6, 8–12, *C.* sp. [considered possibly two spp.] p. 153 pl. xxv figs. 1–4, HINTZE **24.**

Cybelopsis speciosa Poulsen p. 18, ADAMS & COWIE **1.**

Cyclagnostidae [recte Cyclopagnostidae] Howell 1937 taken to include *Cyclagnostus* [recte *Cyclopagnostus*] and *Hypagnostus* p. 174, HUPÉ **28.**

Cyclopagnostidae see Cyclagnostidae.

Cyclopyge binodosa (Salter) p. 239, *C.* fragments p. 240, WHITTARD *in* WHITTARD ET AL. **80.**

Cyclopyge prisca (Barrande) suggested revised identification of *Aeglina binadosa* of Charlesworth 1953, *C. binodosa* probably not found in Ireland p. 435, LAMONT **45.**

Cyclopygidae Raymond 1925 referred to Asaphoidae p. 223, HUPÉ **28.**

Cyphaspididinae Přibyl taken to include *Cyphaspides* Novák 1890 alone p. 199, HUPÉ **28.**

Cyphaspis Burmeister 1843—accepted that *Otarion* Zenker 1833 [quod vide] has valid priority p. 279, STÄUBLE **72.**

Cyphaspis hydrocephala Richter 1914 *partim* (*non* Roem.) referred to *Otarion* (*Otarion*) *balanops* **sp. n.** p. 73, ERBEN **15.**

Cyphinium kumpani Weber 1933 referred to *Weberides* p. 226, PŘIBYL **55.**

Cyphlolichas [recte *Cypholichas*] Phleger 1936 a synonym of *Conolichas* Dames 1877 p. 227, HUPÉ **28.**

Cyphoproetus recorded p. 28, LAMONT **44.**

Cyranolichas Phleger 1936 a synonym of *Hoplolichas* Dames 1877 p. 227, HUPÉ **28.**

Cyrtodechenella R. & E. Richter 1950 considered of generic status and referred to Dechenellidae p. 219, HUPÉ **28.**

Cyrtometopinae Öpik 1937 subdivided on glabellar shape into (a) *Cyrtometopus*, *Eccoptochile*, *Pilekia*, *Reraspis* ; (b) *Pompeckja*, *Actinopeltis*, *Pseudosphaerexochus*, *Kawina* ; (c) *Hemisphaerocoryphe*, *Sphaerocoryphe* p. 238, HUPÉ **28.**

Cyrtoproetus Reed 1943 considered an independent genus, *C. antonovi*, *C. librovitchi* and ? "*Proetus*" *pila* Weber 1937 spp. referred p. 227, PŘIBYL **55.**

Cyrtosymbole Richter 1913 referred to Cyrtosymbolidae (Cyrtosymbolinae) **fam. et subfam. n.** p. 217, HUPÉ **28.**

Cyrtosymbole (*Cyrtodechenella*) see *Cyrtodechenella.*

Cyrtosymbole (*Cyrtoproetus*) see *Cyrtoproetus.*

Cyrtosymbole (*Cyrtosymbole ?*) *bergica* Richter, *C.* (*C.*) *granulifera* Balaschova sp. nov. [nom. nud.] Devonian (Upper) Russia, *C.* (*Waribole*) *conifera* R. & E. R. and *C.* (*W.*) *eulenspigelia* R. & E. R. p. 414, BALASCHOVA & BALASCHOV **2.**

Cyrtosymbolidae **fam. n.** [Proetoidae] for Eodrevermanniinae, Cyrtosymbolinae and Pteropariinae **subfamm. n.** p. 217, HUPÉ Traité de Paléontologie **3** 1953.

Cyrtosymbolinae **subfam. n.** [Cyrtosymbolidae] for *Cyrtosymbole*, *Cystispina*, *Typhloproetus*, *Phillibole*, *Palpebralia*, *Carnicia*, *Formosia* and *Drevermannia* p. 217, HUPÉ Traité de Paléontologie **3** 1953.

Cystispina R. & E. Richter 1939 considered of generic status and referred to Cyrtosymbolinae **subfam. n.** p. 217, HUPÉ **28.**

Daguinaspidae Hupé 1952 [recte 1953] for *Daguinaspis* and *Choubertella* Hupé [nomina nuda] p. 176, HUPÉ **28.**

Daguinaspidae[sic]**fam. n.**[Olenelloidae] for *Daguinaspis* and *Choubertella* **genn. n.** p. 137, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Daguinaspis Hupé & Abadie [nom. nud. 1950] referred to Daguinaspidae p. 176, *D. ambroggii* H. [nom. nud.] text-figs. 117 (1) line drawing, 57, HUPÉ **28.**

Daguinaspis **gen. n.** [Daguinaspidae] [Hupé & Abadie nom. nud. 1950] for type *D. ambroggii* **sp. n.** [nom. nud. 1950] p. 140 pl. v figs. 1, 4–12, 14–15, text-figs. 28 (reconstruction), 32 (3), 60, 61, *D.* (*Eodaguinaspis*) **subgen. n.** p. 138 for type *D.* (*E.*) *abadiei* **sp. n.** p. 139 text-fig. 32 (1) line drawing, *D.* (*Daguinaspis*) **subgen. n.** p. 138 for type *D.* (*D.*) *ambroggii*, *D.* (*D.*) *subabadiei* **sp. n.** p. 139 text-fig. 32 (2) line drawing, *D.* (*D.*) *latifrons* **sp. n.** p. 141 pl. v fig. 13 text-fig. 32 (4) line drawing, *D.* (*Epidaguinaspis*) **subgen. n.** p. 139 for type *D.* (*E.*) *angusta* **sp. n.** p. 141 text-figs. 30, 32 (5) line drawings Cambrian (Lower) Morocco (Anti-Atlas); evolution of *Daguinaspis* p. 141, relations to *Yunnanocephalus* p. 283, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Dalmanites (*Phacops*) *caudatus* from Ireland line drawing text-fig. 11 (7), CHARLESWORTH **9.**

Dalmanites caudatus (Brünnich) record from Ireland discussed p. 435, LAMONT **45.**

Dalmanites cf. *caudatus* (Brunnich), *D.* cf. *weaveri* (Salter) p. 199, *D.* sp. p. 200, WILLIAMS **84.**

Dalmanites hausmanni (after Barrande) text-fig. 13.30 c, SHROCK & TWENHOFEL **66.**

Dalmanites cf. *vulgaris* (Salter) p. 244, WHITTARD *in* WHITTARD ET AL. **80.**

Dalmanitidae Delo 1935—classification of Delo accepted into Zeliszkellinae, Dalmanitinae, Pterygometopinae, Asteropyginae and Synphoriinae p. 234, HUPÉ **28.**

? *Dalmanitina peladense* **sp. n.** Cambrian (Upper) Argentina (Mendoza) p. 7 text-fig. 10, RUSCONI Bol. paleont. B. Aires No. 25 1953.

Dalmanitina socialis Barrande text-fig. 137 (1), HUPÉ **28.**

Damesellidae Kobayashi 1935 referred to Olenoidae **superfam. n.** and classified into Damesellinae, Dorypygellinae and Drepanurinae **subfam. n.** p. 205, HUPÉ **28.**

Damesellinae Kobayashi 1935 taken to include *Blackwelderia*, *Damesella*, *Stephanocare* and *Blackwelderioides* nom. nud. p. 205, HUPÉ **28.**

Dartonaspis Miller 1936 a synonym of *Chariocephalus* Hall 1863 p. 229, HUPÉ **28.**

Dartonaspis Miller 1936 not a synonym of *Chariocephalus* Hall 1863 although all the described spp. of *C.* (except the type *C. whitfieldi*) show the characters of *D.*, *Schmidtaspis* Kobayashi 1944 a subjective synonym of *D.* p. 887, LOCHMAN **48.**

Dartonaspis referred to Komaspidae and discussed p. 894, *Drumaspis utahensis* Resser 1942 and possibly *D. goodsirensis* R. 1942 referred to *D.* p. 895, LOCHMAN **49.**

Dartonaspis knighti Miller 1936 p. 566 pl. lxi figs. 5, 6, 12, BERG **5.**

Dasometopus Resser 1936 referred to Conocoryphinae p. 194, HUPÉ **28.**

Dasometopus breviceps (Ang.), *D. ? incertus* Wgård listed p. 38, WESTERGÅRD **79.**

Dawsonia [Hartt 1868] considered to have been validly published (pending ruling by ICZN on publication in synonymies), *Aculeodiscus* Šnajdr 1950 [quod vide] considered either a synonym or an acceptable substitute for *D.* since its type should be called *A. dawsoni* (H.) (type of *D.*) not *A. bohemicus* Š. 1950, SINCLAIR **67.**

Dawsonidea Kobayashi 1943 a synonym of Eodiscoidae Richter 1932 emend. p. 168, HUPÉ **28.**

Dawsoniidae Resser 1937 referred to Eodiscoidae, considered to include *Dawsonia* Hartt 1863 [sic] and *Deltadiscus* Kobayashi 1943 p. 170, HUPÉ **28.**

Deadwoodia Resser 1938 referred tentatively to Anomocarellidae **fam. n.** p. 189, HUPÉ **28.**

Dechenella (*Basidechenella*) see *Basidechenella.*

Dechenella (*Basidechenella*) *incerta* Oehlert 1889 and *D.* (*B.*) *rogeri* Pillet 1951 p. 614, PILLET **54.**

Dechenella (*Dechenella*) *verneuili* [n.] subsp. *A* R. & E. Richter [undescr.] pp. 151, 158, GLINSKI **22.**

Dechenella (*Paradechenella*) see *Paradechenella.*

Dechenellidae (Přibyl 1945 emend.) considered of family status, referred to Proetoidae and taken to include *Dechenella*, *Schizoproetus*, *Paradechenella*, *Basidechenella*, *Cyrtodechenella* and *Proetina* p. 219, HUPÉ **28.**

Deckera Frederickson 1949 referred to Solenopleurinae **subfam. n.** p. 195, HUPÉ **28.**

Decoroproetus see *Proetus.*

Decoroproetus Přibyl considered of generic status p. 216, HUPÉ **28.**

Deiphoninae Raymond 1913 emend. to include *Deiphon* alone p. 238, HUPÉ **28.**

Deiracephalus Resser 1935 referred tentatively to Alokistocarinae **subfam. n.** p. 190, HUPÉ **28.**

Deisella [recte *Deissella*] Howell & Duncan 1933 [recte 1939] referred tentatively to Howellaspinae **subfam. n.** p. 193, HUPÉ **28.**

Delaria Weller 1944 referred to Ditomopyginae **subfam. n.** p. 219, HUPÉ **28.**

Delaria antiqua p. 232, NEWELL ET AL. **52.**

Delgadodiscus Kobayashi 1935 a synonym of *Delgadoia* Vogdes 1917 p. 168, HUPÉ **28.**

Delgadoia caudata Delgado text-fig. 112 (8), HUPÉ **28.**

Dellea Frederickson 1949 referred to Solenopariidae **fam. n.** p. 195, HUPÉ **28.**

Deltadiscus praecursor Matthew text-fig. 112 (6), HUPÉ **28.**

Denemarkia Přibyl 1945 referred to Tropidocoryphidae (Denemarkiinae) **subfam. n.** p. 217, HUPÉ **28.**

Denemarkiinae **subfam. n.** [Tropidocoryphidae] for *Denemarkia*, *Astroproetus* and ? *Warburgella* p. 217, HUPÉ Traité de Paléontologie **3** 1953.

Denisia Clark 1924 referred to Raymondinidae p. 199, HUPÉ **28.**

Desmetia annectens (Walcott) p. 6, HINTZE **24.**

Despujolsia Pocley 1949 referred to Neoredlichiidae **fam. n.** p. 177, HUPÉ **28.**

Despujolsia Neltner & Pocley 1949 discussed and referred to Neoredlichiidae p. 190, *D. rochi* N. & P. holotype refigured pl. viii figs. 3–4 text-fig. 36 (9), HUPÉ **29.**

Diacalymene diademata Barrande text-fig. 135, HUPÉ **28.**

Diacalymene aff. *marginata* Shirley p. 195, WILLIAMS **84.**

Diacalymene praecox Bancroft p. 243, WHITTARD *in* WHITTARD ET AL. **80.**

Diacanthaspis see Undetermined genera and spp.

Diacanthaspis recorded p. 34, EVITT **16.**

Diacanthaspis cooperi Whittington cranidial development after Whittington (line drawings) text-figs. 61 (1–4), HUPÉ **28.**

Dicranopeltis scabra Beyrich text-fig. 133, HUPÉ **28.**

Dicranurus (*monstrosus* type) from Australasia p. 90, GILL **21.**

Dictyella Kobayashi 1933 a subjective synonym of *Xenostegium* Walcott 1925 p. 886, LOCHMAN **48.**

Dictyocephalites Bergeron 1895 referred to Harpididae p. 241, HUPÉ **28.**

Digonus Gürich 1909 referred to Homalonotinae **subfam. n.** p. 233, HUPÉ **28.**

Dikelocephalid fragments p. 911, BASS & NORTHROP **4.**

Dikelocephalidae Miller 1890 [sic] classified into Dikelocephalinae and Osceolinae p. 213, HUPÉ **28.**

Dikelocephalidae — suggested affinities of *Changia* Sun 1924 p. 889, LOCHMAN **48.**

Dikelocephalinae Beecher 1897 emend. taken to include *Dikelocephalus*, *Briscoia* and *Parabriscoia* p. 213, HUPÉ **28.**

Dikelokephalininae Kobayashi 1936 emend. referred to Hungaidae and taken to include *Hungioides*, *Asaphopsis*, *Dikelocephalina* and *Asaphopsoides* nom. nud. p. 213, HUPÉ **28.**

Dikelocephalites Sun 1935 referred to Changshaniidae **fam. n.** p. 213, HUPÉ **28.**

Dikelocephaloidae (Richter 1932 emend.) taken to include Anomocaridae, Changshaniidae, Dikelocephalidae and Hungaidae p. 211, HUPÉ **28.**

Dikelocephalus cf. *D. minnesotensis* Owen p. 911, BASS & NORTHROP **4.**

Dikelocephalus regalis Ulrich & Resser text-fig. 126 (2), HUPÉ **28.**

Dimeropyge Öpik 1937 referred to Dimeropygidae **fam. n.** p. 198, HUPÉ **28.**

Dimeropyge lucifer Sinclair p. 849, SINCLAIR **68.**

Dimeropygidae **fam. n.** [Solenopleuroidae] for *Dimeropyge* Öpik 1937 and possibly *Bolbocephalus* p. 198, HUPÉ Traité de Paléontologie **3** 1953.

Dimeropygiella Ross 1951 relations with *Dimeropyge* discussed, *D. caudanodosa* R. p. 154 pl. xix figs. 5, 10, *D. ovata* **sp. n.** p. 155 pl. xix figs. 1–4, *D. blanda* **sp. n.** p. 155 pl. xix figs. 6–8 (differences from *D. o.* may be sexual, not specific) Ordovician (Lower) U.S.A. (Utah), *D.* ? immature pygidium [undescr.] pl. xix fig. 9, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Dimeropygiella caudanodosa Ross p. 637 pl. lxiii figs. 24, 25, 28–30, text-fig. 1 [4 reconstructions], ROSS **59.**

Dindymene sp. p. 239, WHITTARD *in* WHITTARD ET AL. **80.**

Dinesidae **fam. n.** [Corynexochoidae] for *Dinesus* Etheridge 1896 p. 183, HUPÉ Traité de Paléontologie **3** 1953.

Dinesus Etheridge 1896 referred to Dinesidae **fam. n.** p. 183, HUPÉ **28.**

Dionide Barrande 1847—*Trigryops* Kobayashi 1940 a synonym p. 242, HUPÉ **28.**

Dionide holdeni Raymond [corrected spelling of *holdoni* R.] with synonym *D. contrita* R. 1920 and 1925 p. 10 pl. iii figs. 3–7, *D. holdoni* of R. 1925 *partim* (pl. 1 fig. 16), Butts 1941 *partim* (pl. 82 fig. 27) and Cooper & C. 1946 referred to *Edmundsonia typa* **gen. et sp. n.** p. 11, COOPER **12.**

Dionide rotundata Whittard, *D. turnbulli* Whittington p. 239, WHITTARD *in* WHITTARD ET AL. **80.**

Dionide sp. p. 109, STØRMER **73.**

Dionididae Raymond 1920 referred to Trinucleoidae, and taken to include *Dionide* Barrande, *Dionidella* Prantl & Přibyl, *Digryops* Kobayashi and ? *Trinucleoides* Raymond p. 242, HUPÉ **28.**

Dionididae see *Edmundsonia* **gen. n.**

Dipharus Clark 1923 may be a larval form of *Hebediscus* Whitehouse 1936, but Shaw's 1950 suppression of the latter not accepted p. 112, HUPÉ **29.**

Dipharus attleborensis (Shaler & Foerste) p. 237, STUBBLEFIELD *in* WHITTARD ET AL. **80.**

Diplagnostidae Whitehouse 1936 taken to include *Tomagnostus*, *Diplagnostus*, *Linguagnostus* and *Glyptagnostus* p. 172, HUPÉ **28.**

Diplapatokephalus Raymond 1937 considered a subgenus of *Apatokephalus* Brögger 1897 p. 54, *D. finalis* (Walcott) pl. iv fig. 13 (line drawing), KOBAYASHI **40.**

Dipleura Green 1832 referred to Trimerinae **subfam. n.** p. 233, HUPÉ **28.**

Ditomopyge Newell 1931 emend. Weller 1936 referred to Phillipsiidae (Ditomopyginae) **subfam. n.** p. 219, HUPÉ **28.**

Ditomopyginae **subfam. n.** [Phillipsiidae] for *Sevillia*, *Ditomopyge* and *Delaria* p. 219, HUPÉ Traité de Paléontologie **3** 1953.

Dolerolenidae Kobayashi 1951 referred to Redlichiidea p. 179, HUPÉ **28.**

Dolerolenus Leanza 1949 text-figs. 60 (1–4) after Bornemann, HUPÉ **28.**

Dolgaia Walcott & Resser 1925 referred to Anomocarellidae **fam. n.** p. 189, HUPÉ **28.**

Dolichometopidae Walcott 1916—Bathyuriscidae Richter a synonym, classified into Mexicaspinae, Bathyuriscinae, Orriinae, Glossopleurinae, Hanburiinae and Vanuxemellinae **subfamm. n.** p. 183; Tonkinellidae may be related p. 186, HUPÉ **28.**

Dolichometopsis Poulsen 1927 referred to Ptarmigania-series of Bathyuriscinae **subfam. n.** p. 185, HUPÉ **28.**

Dolichometopus Angelin 1852 referred to Bathyuriscinae **subfam. n.** p. 184, HUPÉ **28.**

Dolichometopus suecicus Ang. listed p. 36, WESTERGÅRD **79.**

Doryagnostus Westergård 1946 [recte Kobayashi 1939] referred to Hastagnostidae p. 173, HUPÉ **28.**

Dorypyge aenigma (Linrs.) listed p. 36, WESTERGÅRD **79.**

Dorypyge richtofeni Dames text-fig. 119 (3), HUPÉ **28.**

Dorypygellinae Kobayashi 1935 emend. taken to include *Teinistion*, *Dorypygella* and *Shantungia* p. 205, HUPÉ **28.**

Dorypygidae Kobayashi 1935 considered a family and classified into Holteriinae **subfam. n.** and Dorypyginae p. 186, Kooteniidae Resser 1939 a synonym, HUPÉ **28.**

Dorypyginae [erroneously as Dorypiginae] Kobayashi 1935 [*partim*] taken to include *Dorypyge*, *Kootenia*, *Bonnia*, *Bonniopsis* and ? *Bonniella* p. 186, HUPÉ **28.**

Drepanura Bergeron 1899 referred to Damesellidae (Drepanurinae) **subfam. n.** p. 205, HUPÉ **28.**

Drepanurinae **subfam. n.** [Dameselidae] for *Drepanura* and *Parablackwelderia* p. 205, HUPÉ Traité de Paléontologie **3** 1953.

Drevermannia Richter 1909 referred to Cyrtosymbolinae **subfam. n.** p. 217, *D. pruvosti* R. & E. Richter text-fig. 9 (10) line drawing, HUPÉ **28.**

Drevermannia Richter considered possibly descended from *Piriproetus* p. 605, *D.* (*Palpebralia ?*) *hermanni* R. & E. Richter 1943 p. 612 text-figs. 26–28, *D.* (*Drevermannia*) *schmidti* R. 1913 and *D. ?* (*Carnicia*) *carnica* R. 1913 p. 614, PILLET **54.**

Drevermannia (*Eodrevermannia*) see *Eodrevermannia*.

Drumaspis discussed, considered ancestral to *Chariocephalus* and both referred to Elviniidae, *D. utahensis* Resser 1942 and possibly *D. goodsirensis* R. 1942 referred to *Dartonaspis* p. 895, LOCHMAN **49.**

Dunderbergella Howell 1945 referred to Emmrichellidae p. 200, HUPÉ **28.**

Dyndimene Hawle & Corda 1847 error pro *Dindymene* p. 239, HUPÉ **28.**

Ectenaspis Raymond 1920 see Asaphinae.

Ectenotus Raymond 1920 error pro *Ectenonotus* Raymond 1920 p. 239, HUPÉ **28.**

Edelsteinaspidae **fam. n.** [? Corynexochoidae] for *Edelsteinaspis* Lermontova 1940 p. 182, Hupé Traité de Paléontologie **3** 1953.

Edelsteinaspis Lermontova 1940 referred to Edelsteinaspidae **fam. n.** p. 182, Hupé **28.**

Edmundsonia **gen. n.** [Dionideidae *sic*] for type *E. typa* **sp. n.** Ordovician (Middle) U.S.A. (Virginia) for *Dionide holdoni* of Raymond 1925 *partim* (pl. I fig. 16—holotype of *E. t.*), Butts 1941 *partim* (pl. 82 fig. 27) and Cooper & C. 1946 p. 11 pl. iii figs. 1–2, Cooper Mem. geol. Soc. Amer. No. 55 1953.

Ehmania Resser 1935 referred to Ptychopariinae p. 193, Hupé **28.**

Ehmaniella Resser 1937 referred to Ptychopariinae p. 193, Hupé **28.**

Eilura Resser & Endo 1937 referred to Anomocarellidae **fam. n.** p. 189, Hupé **28.**

Eirelithus thersites (Salter) recorded from Wicklow, Ireland [see also *Trinucleus concentricus*] p. 433, R. P. Tripp *in* Lamont **45.**

Eldoradia Resser 1938 referred to Alokistocarinae **subfam. n.** p. 190, Hupé **28.**

Eldoradia referred to Nepeidae p. 892, Lochman **49.**

Eleutherocentrus Clark 1935 referred to Bathyurinae **subfam. n.** p. 198, Hupé **28.**

Eleutherocentrus Clark 1935 referred to Bathyuridae, relations to *Goniotelus* and *Goniotelina* p. 665, *E. petersoni* C. 1935 p. 668 pl. lxix figs. 3–6, 9–10, text-fig. 5 (reconstruction), *E. williamsi* Ross 1951 type of *Goniotelina* **gen. n.** [quod vide] p. 663, Whittington **81.**

Eleutherocentrus sp. listed pp. 19 21, *E.* cf. *E. petersoni* listed p. 21, Hintze **24.**

Ellipsocephalidae Matthew 1887 referred to Ellipsocephalidea and classified into Ellipsocephalinae and Aldoniinae **subfam. n.** p. 180, Hupé **28.**

Ellipsocephalidea Richter 1932 emend. referred to Redlichioidae [quod vide for constituent families] p. 180, Hupé **28.**

Ellipsocephalinae Hupé 1952 [recte Kobayashi 1935] taken to include *Ellipsocephalus* Zenker 1833, *Micmacca* Matthew 1895 and ? *Ferralsia* Cobbold 1935 p. 180, Hupé **28.**

Ellipsocephaloidae [recte Ellipsocephaliididae] Resser 1942 [so ascribed] for *Ellipsocephaloides* Kobayashi 1935, referred to Telephoidae p. 229, Hupé **28.**

Ellipsocephaloides Kobayashi 1935 see Ellipsocephaloidae.

Ellipsocephaloides gracilis Feniak p. 557, Berg **5.**

Ellipsocephaloiididae see Ellipsocephaloidae.

Ellipsocephalus polytomus Linnarsson text-fig. 118 (5), Hupé **28.**

Ellipsocephalus polytomus Linrs., *E. lejostracus* (Ang.) listed p. 38, Westergård **79.**

Elliptocephala Emmons 1844 referred to Elliptocephalinae **subfam. n.** p. 175, Hupé **28.**

Elliptocephala asaphoides (after Walcott) text-figs. 13.31 H, 13.35 C, Shrock & Twenhofel **66.**

Elliptocephalinae Hupé 1952 [recte **subfam. n.**] [Olenellidae] for *Elliptocephala* Emmons 1844 p. 175, Hupé Traité de Paléontologie **3** 1953.

Elrathia Walcott 1924 referred to Ptychopariinae p. 193, Hupé **28.**

Elrathiella Poulsen 1927 referred to Ptychopariidae (Elrathiellinae) **subfam. n.** p. 193, Hupé **28.**

Elrathiellinae **subfam. n.** [Ptychopariidae] for *Elrathiella*, *Rowia*, *Parehmania*, ? *Ptychoparioides* and *Thomsonaspis* p. 193, Hupé Traité de Paléontologie **3** 1953.

Elrathina Resser 1937 referred to Elrathinidae (Elrathininae) **fam. et subfam. n.** p. 192, *E. cordillerae* (Rominger) text-fig. 121 (4), Hupé **28.**

? *Elrathina* sp. p. 1061, Dresnay & Hupé **14.**

? *Elrathina* sp. for *Strenuella* cf. *spinosa* of Neltner 1938 *partim* [pl. 13 fig. 15] p. 258 pl. ix fig. 17, Hupé **29.**

Elrathinidae **fam. n.** [Ptychoparioidae] subdivided into Plagiurinae, Elrathininae and Solenopleurellinae **subfamm. n.** [quæ vide] p. 192, HUPÉ Traité de Paléontologie **3** 1953.

Elrathininae **subfam. n.** [Elrathinidae **fam. n.**] for *Elrathina*, *Poulsenia*, *Lyriaspis*, *Liosolenopleura*, *Bernia* and *Glyptometopus* p. 192, HUPÉ Traité de Paléontologie **3** 1953.

Elvinia obliquoensis **sp. n.** Cambrian (Upper) Argentina p. 1 text-fig. 1, RUSCONI Bol. paleont. B. Aires No. 28 1953.

Elvinia roemeri Shumard text-fig. 125 (2), HUPÉ **28.**

Elviniidae (Kobayashi 1935 emend.) referred to Olenoidae **superfam. n.** and classified into Elviniinae and Maladiinae **subfam. n.** p. 206, HUPÉ **28.**

Elviniidae Kobayashi 1935 distinct from but related to Komaspidae K. 1935, considered to include *Maladioides* [quod vide], *Elvinia*, *Drumaspis* and *Chariocephalus*, evolution discussed p. 895 text-fig. 1, LOCHMAN **49.**

Elviniinae Kobayashi 1935 emend. taken to include *Maladioidella*, *Eugonocare*, *Elvinia*, *Taenicephalus*, *Conaspis*, ? *Taenicephalina*, *Resseraspis*, *Maladioides* and ? *Parabolinella* p. 206, HUPÉ **28.**

Elyx laticeps (Ang.) listed p. 38, WESTERGÅRD **79.**

Emmrichella constricta Walcott text-fig. 123 (1), HUPÉ **28.**

Emmrichellidae Kobayashi 1935 referred tentatively to Utioidae, taken to include ? *Probowmania*, *Emmrichella*, ? *Phylacterus*, ? *Glaphyraspis*, ? *Kyphocephalus*, *Bowmania*, *Dunderbergella* and ? *Megagraulos* p. 200, HUPÉ **28.**

Encrinurella see *Pliomera*.

Encrinuridae Angelin 1854 referred to Cheiruroidae, and divided on basis of glabellar shape into (a) *Cybelella*, *Cybeloides*, *Atractopyge*, *Cybelopsis*, *Cybele*, *Ectenonotus*; (b) *Cryptonymus*, *Encrinurus*, *Cromus*, *Atractopyge* [sic], *Encrinurella*, *Dindymene*, *Plasiaspis* p. 239, HUPÉ **28.**

Encrinuridae see *Bevanopsis* **gen. n.**

Encrinuridae (Staurocephalinae) see Staurocephalinae.

Encrinuroides sexcostatus (after Whittington) text-fig. 13.31 A, SHROCK & TWENHOFEL **66.**

Encrinurus recorded p. 43, KAY **36.**

Encrinurus calgach and *E. pluc* [**spp. n.**] Silurian Scotland [spp. nondescr. 1948] summaries of characters p. 28 [*E. calgach* described by inference], relations to other spp. of *E.* p. 31, LAMONT Rep. XVIII int. geol. Congr. 1948 **10** 1952.

Encrinurus emposadensis **sp. n.** Ordovician (Lower) Argentina (Mendoza) p. 4 text-fig. 3, RUSCONI Bol. paleont. B. Aires No. 25 1953.

Encrinurus moderatus Poulsen, *E.* sp. indet. p. 20, ADAMS & COWIE **1.**

Encrinurus ornatus p. 35, FISHER **18.**

Encrinurus punctatus text-figs. 81 (15, 16), HOLTEDAHL **25.**

Encrinurus punctatus (Brünnich) p. 196, *E.* sp. p. 195, WILLIAMS **84.**

Encrinurus seebachi Schmidt text-fig. 139, HUPÉ **28.**

Encrinurus spp. pp. 849, 852, SINCLAIR **68.**

Endymioniidae Raymond 1920 referred to Trinucleoidae and taken to include *Endymionia* Billings, *Salteria* Thomson, *Ampyxina* Ulrich, ? *Raymondella* Reed and ? *Seleneceme* Clark p. 242, HUPÉ **28.**

Enontioura Resser 1942 a subjective synonym of *Plethometopus* Ulrich 1931 as pygidia of *E.* occur in Lévis boulders associated with cranidia of *P.* p. 888, LOCHMAN **48.**

Entomaspidae Ulrich 1930 referred to Trinucleoidae, and taken to include *Entomaspis* U. alone p. 241, HUPÉ **28.**

Eoagnostus Resser & Howell 1937 [recte 1938] referred to Spinagnostidae p. 174, HUPÉ **28.**

Eobronteidae Sinclair 1949 a synonym of Scutellidae R. & E. Richter 1925 p. 224, HUPÉ **28.**

Eobronteus benornatus **sp. n.** error pro *Eobronteus benoratus* **sp. n.** Sinclair 1949, Z.R. **86** for 1949 II 1951 p. 9.

Eobronteus oratus [recte *benoratus*] Sinclair p. 845, *E.* sp. p. 845, SINCLAIR **68.**

Eochuanginae Kobayashi 1935 taken to include *Eochuangia* [misspelt *Eochungia*], *Ataktaspis* [misspelt *Atakaspis*] and ? *Hardia* p. 210, HUPÉ **28.**

Eocyphinium Reed 1942 referred to Griffithidinae **subfam. n.** p. 219, *E. mucronatum* McCoy [for *Phillipsia m.* McCoy] text-fig. 128 (6), HUPÉ **28.**

Eodaguinaspis **subgen. n.** see *Daguinaspis.*

Eodiscidae Raymond 1913 classified following Kobayashi into Calodiscinae, Eodiscinae, Spinodiscinae and Brevidiscinae p. 168, HUPÉ **28.**

Eodiscinae Kobayashi 1943 accepted as a subfamily of Eodiscidae p. 169, HUPÉ **28.**

Eodiscinae Kobayashi 1943 diagnosis questioned, *Serrodiscus* R. & E. Richter 1941 referred p. 109, HUPÉ **29.**

Eodiscoidae Richter 1932 emend. classified into Hebediscidae, Weymouthiidae, Pagetiidae, Eodiscidae, Dawsoniidae and Aulacodiscidae **fam. n.** p. 168, HUPÉ **28.**

Eodiscus punctatus text-fig. 13.34D, SHROCK & TWENHOFEL **66.**

Eodiscus (*Serrodiscus*) see *Serrodiscus.*

Eodorhachis error pro *Oedorhachis* p. 173, HUPÉ **28.**

Eodrevermannia Přibyl 1946 considered of generic status and referred to Cyrtosymbolidae (Eodrevermanniinae) **fam. et subfam. n.** p. 217, HUPÉ **28.**

Eodrevermanniinae **subfam. n.** [Cyrtosymbolidae] for *Eodrevermannia, Prantlia* and *Scharyia* p. 217 HUPÉ Traité de Paléontologie **3** 1953.

Eohomalonotinae **subfam. n.** [Homalonotidae] for *Eohomalonotus* Reed, *Calymenella* Bergeron and *Plaesiacomia* Hawle & Corda p. 233, HUPÉ Traité de Paléontologie **3** 1953.

Eohomalonotus Reed 1918 referred to Homalonotidae (Eohomalonotinae) **subfam. n.** p. 233, HUPÉ **28.**

Eomonorachos sp. p. 852, SINCLAIR **68.**

Eophacops scotica [sp. nondescr Lamont 1948] p. 28, LAMONT **44.**

Eops R. & E. Richter 1940 referred tentatively to Latiredlichiidae p. 179, HUPÉ **28.**

Eops R. & E. Richter 1940 discussed and referred tentatively to Latiredlichiidae p. 196, *E. eo* of Neltner & Poctey 1949 from Morocco referred to *Gigantopygus bondoni* **gen. et sp. n.** p. 183, HUPÉ **29.**

Eorobergia **gen. n.** [Remopleurididae] for type *Robergia marginalis* Raymond 1925 original material listed Ordovician (Middle) U.S.A. (Te) p. 21 pl. viii figs. 1–6, COOPER Mem. geol. Soc. Amer. No. 55 1953.

Eoshumardia **gen. nondescr.** [Shumardiidae] for type *Shumardia orientalis* Mansuy Cambrian (Upper) Yunnan p. 242, HUPÉ **28.**

Epidaguinaspis **subgen. n.** see *Daguinaspis.*

Erbia and tentatively *Erbiopsis* Lermontova 1940 referred to Proerbiidae **fam. n.** p. 182, *Paratollaspis* Kobayashi 1943 a synonym of *Erbia,* HUPÉ **28.**

Erbia sp. p. 1089, REZVOŇ **57.**

Eremiproetus R. & E. Richter 1919 considered of generic status p. 216, HUPÉ **28.**

Eremiproetus R. & E. Richter considered a gen. of Proetinae p. 598, *E. eremita erbeni* **subsp. n.** Devonian (Middle) France (Brittany) for *Proetus* (*E.*) *e.* n. subsp. Erben 1952 p. 607 text-figs. 11–16, *E.* cf. *vicinus* Barrande 1872 excluding the Brittany records of Barrois 1889 *partim,* Ferronnière 1920 and Péneau 1928 p. 610, *E. ? ligeriensis* (Barrois) 1889 p. 614, PILLET Bull. Soc. géol. Fr. (6) **2** 7–9 1953.

Esmeraldina Resser 1938 referred to Wanneriinae **subfam. n.** p. 176, HUPÉ **28.**

Euarges see *Lichas.*

Eugonocare Whitehouse 1939 referred to Elviniinae p. 206, HUPÉ **28.**

Euloma Angelin 1854 referred to Pharostomidae **fam. n.** p. 232, HUPÉ **28.**

Euloma monile praemonile Lake p. 236, STUBBLEFIELD *in* WHITTARD ET AL. **80.**

Euloma ornatum text-figs. 70 (11, 12), HOLTEDAHL **25.**

Euptychaspidae **fam. n.** [Ptychaspidoidae] for *Euptychaspis* Ulrich 1930, *Keithia* and *Keithiella* p. 215, HUPÉ Traité de Paléontologie **3** 1953.

Euptychaspis Ulrich 1930 referred to Euptychaspidae **fam. n.** p. 215, HUPÉ **28.**

Euptychaspis recorded p. 6, HINTZE **24.**

Eurekia Walcott 1924 referred to Eurekiidae **fam. n.** p. 208, *E. granulosa* W. text-fig. 125 (4), HUPÉ **28.**

Eurekia recorded p. 6, HINTZE **24.**

Eurekia sp. p. 911, BASS & NORTHROP **4.**

Eurekiidae **fam. n.** [Olenoidae] for *Eurekia* Walcott 1924, *Corbinia*, *Bayfieldia* and *Monocheilus* p. 208, HUPÉ Traité de Paléontologie **3** 1953.

Eurostina Whitehouse 1939 referred to Nepeidae, *Inouyia* and *Lorenzella* may be derived from *E.* p. 192, HUPÉ **28.**

Eurycare latum text-figs. 69 (23, 24), HOLTEDAHL **25.**

Exochops Weller 1936 referred to Griffithidinae **subfam. n.** p. 219, HUPÉ **28.**

Eymekops Resser & Endo 1937 referred to Anomocarellidae **fam. n.** p. 189, HUPÉ **28.**

Fallotaspidinae Hupé 1952 [recte 1953] subfam. of Olenellidae for *Fallotaspis* H. [nom. nud.] p. 175, HUPÉ **28.**

Fallotaspidinae **subfam. n.** [Olenellidae] for *Fallotaspis* **gen. n.** p. 124, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Fallotaspis [nom. nud.] p. 104, HUPÉ **26.**

Fallotaspis Hupé [nom. nud.] referred to Fallotaspidinae p. 175, *F. tazemmourtensis* H. [nom. nud.] text-fig. 115 (line drawing), HUPÉ **28.**

Fallotaspis **gen. n.** [Olenellidae (Fallotaspidinae)] [for *Fallotia* Hupé 1952 nom. nud. *non* Douvillé 1902] p. 125 for type *F. typica* **sp. n.** [nom. nud. 1952] with synonym *Olenellus bondoni* Neltner & Poctey 1949 *partim* [pl. 3 fig. 4, pl. 4 fig. 1] p. 131 pl. ii figs. 2, 7, pl. iii figs. 5–7 text-fig. 19 (reconstruction), *F. tazemmourtensis* **sp. n.** [nom. nud. 1952] p. 127 pl. i figs. 1–8, pl. ii fig. 5 [non 7] text-figs. 16, 17, 20 (reconstructions), *F. planospinosa* **sp. n.** p. 128 pl. ii fig. 4 text-fig. 21 (line drawing), *F. plana* **sp. n.** [nom. nud. 1952] p. 129 pl. ii figs. 1, 3 text-fig. 22 (line drawing), *F. longispina* **sp. n.** [nom. nud. 1952] with synonym *O. b.* N. & P. *partim* [pl. 3 fig. 3, pl. 4 figs. 3, 4, 6, pl. 5 figs. 3, 5] p. 129 pl. i fig. 9, pl. ii figs. 6, 8–11, text-figs. 18 (1), 23 (line drawings), *F. longa* **sp. n.** with synonym *O. b.* N. & P. *partim* [pl. 3 fig. 5] p. 130 pl. iii figs. 1, 3 text-fig. 24 (line drawing) Cambrian (Lower) Morocco (Anti-Atlas); *Kjerulfia ? lundgreni* of Raw 1936 from Comley may belong to *F.* p. 127, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Fallotia Hupé 1952 nom. nud. *non* Douvillé 1902 renamed *Fallotaspis* **gen. n.** p. 125, HUPÉ **29.**

Fengshania Sun 1935 considered of generic status p. 215, HUPÉ **28.**

Fengshania Sun 1935 a subjective synonym of *Ptychaspis* Hall 1863 (not of *Quadraticephalus* as implied by Resser 1942) p. 888, LOCHMAN **48.**

Ferralsia Cobbold 1935 referred with query to Ellipsocephalinae p. 181, HUPÉ **28.**

Ferralsia Cobbold 1935 referred without query to Ellipsocephalinae p. 157, HUPÉ **29.**

Fieldaspis Rasetti 1951 referred to Mexicaspinae **subfam. n.** p. 183, HUPÉ **28.**

Flexicalymene recorded p. 294, STÄUBLE **72.**

Flexicalymene [compared with *onniensis* Bancroft and *meeki* (Foerste)] recorded from Kildare, Ireland p. 435, *F.* aff. *brevicupitata* (Portlock) recorded from Wicklow p. 433, LAMONT **45.**

Flexicalymene cambrensis (Salter) p. 184, *F.* cf. *c.* p. 193, WILLIAMS **84.**

Flexicalymene caractaci (Salter) p. 232, *F. acantha* Bancroft p. 243, WHITTARD *in* WHITTARD ET AL. **80.**

Flexicalymene senaria (Conrad) p. 34, EVITT **16.**

Flexicalymene senaria (Conrad) pl. ix figs. 1–16, pl. x fig. 1, *F. meeki* (Foerste) pl. ix figs. 17–19, pl. x figs. 2–4, text-fig. 1 (serial sections), EVITT & WHITTINGTON **17.**

Flexicalymene senaria (Conrad) p. 847, *F.* sp. p. 849, SINCLAIR **68.**

Flexicalymene trinucleina (Linnars.) p. 186, JAANUSSON & MARTNA **34.**

Flexicalymene ? sp. p. 1037, BARNES, CLOUD & DUNCAN **3.**

Formosia R. & E. Richter 1928 referred to Cyrtosymbolinae **subfam. n.** p. 217, HUPÉ **28.**

Fremontia Raw 1936 referred to Olenellinae **subfam. n.** p. 175, HUPÉ **28.**

Fuchoiua [recte *Fuchouia*] Resser & Endo 1937 referred to Bathyuriscinae **subfam. n.** p. 184, HUPÉ **28.**

Gallagnostus solitariensis Rusc. p. 6, RUSCONI **60.**

Genevievella Lochman 1936 referred to Genevievellidae **fam. n.**, *Llanoaspis* L. 1938 a synonym p. 210, HUPÉ **28.**

Genevievella Lochman 1936—*Stenelymus* Raymond 1937 a subjective synonym p. 888, LOCHMAN **48.**

Genevievella Lochman 1936 referred to Llanoaspinae, *Llanoaspis* L. 1938 not a synonym p. 891, LOCHMAN **49.**

Genevievella campbellina Tasch p. 281, WILSON [Z.R. **90** 11 title **119.**]

Genevievellidae **fam. n.** [? Olenoidae] for *Genevievella* Lochman 1936, *Nixonella*, *Terranovella*, *Knechtelia* and *Bridgeia* p. 210, HUPÉ Traité de Paléontologie **3** 1953.

Geragnostidae Howell 1935 accepted for *Geragnostus* p. 174, HUPÉ **28.**

Geragnostus glabella (diagrammatic) text-fig. 114 (9), HUPÉ **28.**

Geragnostus bisectus (Matthew) 1892, *G. b.* vars. *typica* and *brevis* Shaw 1951 p. 139, SHAW **65.**

Geragnostus jahuelensis Rusc., *G. microcephalus* R., *G. huarpensis* R. p. 6, RUSCONI **60.**

Geragnostus sp. listed p. 7, HINTZE **24.**

Gigantopygus Hupé [nom. nud.] referred to Neoredlichiidae **fam. n.** p. 177, HUPÉ **28.**

Gigantopygus **gen. n.** [Neoredlichiidae] pp. 149, 181 for type *G. papillatus* **sp. n.** p. 184 pl. vi fig. 8, pl. vii figs. 1, 2, 5, text-fig. 36 (11), *G. bondoni* **sp. n.** including *Eops eo* of Neltner & Poctey 1949 *partim* [pl. 7 fig. 4] p. 183 pl. vi fig. 4, pl. vii figs. 3, 4, 6, 7, text-fig. 43 (reconstruction), *G. angustalatus* **sp. n.** p. 185 pl. vi fig. 9 Cambrian (Lower) Morocco (Anti-Atlas) [gen. et spp. nomina nuda 1952]; *Macropyge ?* G. & H. Termier 1950 referred to *G.* p. 181, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Gigoutella Hupé [nom. nud.] referred to Xystridurinae p. 181, HUPÉ **28.**

Gigoutella **gen. n.** [? Xystridurinae] for type *G. atlasensis* **sp. n.** for *Paradoxides* cf. *orphanus* of Gigout 1937 Cambrian (? Lower) Morocco p. 73 text-fig. 10, *Micmacca ? parvula* Cobbold 1910 probably conspecific with *G. a.* p. 76, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Giordanella Bornemann 1891 referred tentatively to Glossopleurinae **subfam. n.** p. 185, HUPÉ **28.**

Giordanella Bornemann 1891 possibly synonymous with *Symphysurina* Ulrich 1924 p. 231, HINTZE **24.**

Girvanagnostus Reed 1903 [recte Kobayashi 1939] referred to Micragnostidae p. 173, *G. girvanensis* R. text-fig. 113 (top middle), HUPÉ **28.**

Glabrella ventrosa Lerm. p. 1089, REZVOĬ **57.**

Glaphuridae **fam. n.** [Telephoidae] for *Glaphurus* Raymond 1905 and *Glaphurina* Ulrich 1930 p. 229, HUPÉ Traité de Paléontologie **3** 1953.

Glaphurina Ulrich 1930 see Glaphuridae **fam. n.**

Glaphurus Raymond 1905 see Glaphuridae **fam. n.**

Glaphyraspis Resser 1937 referred tentatively to Emmrichellidae p. 200, HUPÉ **28.**

Glossocoryphus Deiss 1939 referred to Anomocarellidae **fam. n.** p. 189, HUPÉ **28.**

Glossopleura Poulsen 1927 referred to Dolichometopidae (Glossopleurinae) **subfam. n.** p. 185, Hupé **28.**

Glossopleurinae **subfam. n.** [Dolichometopidae] for *Glossopleura, Anoria, Prosymphysurus* and ? *Giordanella* p. 185, Hupé Traité de Paléontologie **3** 1953.

Glyptagnostus Whitehouse 1936 referred to Diplagnostidae p. 172, *G.* glabella (diagrammatic) text-fig. 114 (11), *G. reticulatus* Angelin text-fig. 113 (lower middle), Hupé **28.**

Glyptometopidae **fam. n.** [Solenopleuroidae] for *Glyptometopus* Rasetti 1944, *Calymenidius* and ? *Ulrichaspis* p. 197, Hupé Traité de Paléontologie **3** 1953.

Glyptometopus Rasetti 1944 referred to Glyptometopidae **fam. n.** p. 198, to Elrathinidae (Elrathininae) **subfam. n.** p. 192, Hupé **28.**

Goniagnostus Howell 1935 referred to Hastagnostidae p. 173, *G.* glabella (diagrammatic) text-figs. 114 (6, 12, 13), Hupé **28.**

Goniagnostus verrucosus Rusc., *G. rotundatus* R. p. 6, Rusconi **60.**

Goniophrys Ross 1951 referred to Komaspidae p. 229, Hupé **28.**

Goniophrys Ross 1951 relation to presumed descendant *Carolinites* p. 144, *G. prima* R. [possibly cf.] p. 156 pl. xx fig. 1, Hintze **24.**

Goniotelina **gen. n.** [Bathyuridae] p. 663 for type *Eleutherocentrus williamsi* Ross 1951 Ordovician (Lower) U.S.A. (Utah) of which paratypes figured and hypostome and rostral plate described p. 666 pl. lxviii figs. 11, 13–21; following spp. referred to *G.*—*G. moorei* (Raymond) 1913 *partim*, *G. bøggildi* and *G. crassicornis* (Poulsen) 1927, *G. subrectus* (Bradley) 1925 p. 665 pl. lxix figs. 1–2, 7–8, pl. lxviii fig. 31 [pygidium as *G. s.* ?], *G. jennii* (Cullison) 1944 *partim* [pygidium excluded] and *G. marionensis* (C.) 1944, *G. brighti*, *G. brevus*, *G. wahwahensis* and *G.* sp. D (Hintze) 1953; *Acidiphorus* Raymond 1925 and *Bathyurina* Poulsen 1937 may be synonyms of *G.* p. 669, Whittington & Ross *in* Whittington J. Paleont. **27** 5 1953.

Goniotelus **gen. n. (nom. n.** for *Goniurus* Raymond preoccupied) p. 14 footnote, Ulrich Bull. Okla. geol. Surv. No. 45 1927.

Goniotelus Ulrich 1927 referred to Bathyurinae **subfam. n.** p. 198, Hupé **28.**

Goniotelus Ulrich 1927 relation to *Eleutherocentrus* discussed p. 157, *G. brighti* **sp. n.** p. 158 pl. xxvi figs. 1–6, *G. brevus* **sp. n.** p. 159 pl. xxvi figs. 7–10, *G. wahwahensis* **sp. n.** p. 160 pl. xxvi figs. 11–13, *G.* ? *ludificatus* **sp. n.** p. 161 pl. xxvii figs. 12–19, *G.* sp. D. p. 161 pl. xxvi figs. 14 a-b Ordovician (Lower and Middle) U.S.A. (Utah), *G.*? sp. [rostrum] pl. xxv fig. 7, *G.* sp. listed pp. 16, 17, Hintze Bull. Utah geol. min. Surv. **48** 1953.

Goniotelus Ulrich 1927 discussed, considered that *Acidiphorus* Raymond 1925 may be a synonym, *G. perspicator* (Billings) 1865 holotype described and figured p. 662 pl. lxviii figs. 1–10; *G. brighti*, *G. brevus*, *G. wahwahensis*, *G.* sp. D Hintze spp. and *G. marionensis* Cullison 1944 referred to *Goniotelina* **gen. n.** p. 666, *G. semicircularis* C. excluded from *Goniotelus* pp. 663, 670, Whittington **81.**

Goniotelus cf. *marionensis* Cullison p. 18, Adams & Cowie **1.**

Goniurus Raymond [1913] preoccupied, renamed *Goniotelus* **nom. n.** [quod vide].

Goniurus bøggildi and *G. crassicornis* Poulsen 1927 referred to *Goniotelina* **gen. n.** p. 665, Whittington **81.**

Gonotelus broeggeri Strand 1932 discussed p. 650, Whittington **81.**

Gravicalymene (*interjecta* type) from Australasia p. 90, Gill **21.**

Griffithides Portlock 1843 emend. Weller 1936 referred to Phillipsiidae (Griffithidinae) **subfam. n.** p. 219, Hupé **28.**

Griffithides sudeticus Patteisky 1930 referred to *Weberides* p. 224, Přibyl **55.**

Griffithidinae **subfam. n.** [Phillipsiidae] for *Paladin*, *Eocyphinium*, *Ameura*, *Kaskia*, *Griffithides*, *Exochops*, *Paraphillipsia*, *Neogriffithides* and *Neoproetus* p. 219, HUPÉ Traité de Paléontologie **3** 1953.

Grönwallia Kobayashi 1935 referred tentatively to Andrarinidae, *G. platyrrhina* (Grönwall 1902) p. 31 pl. vii figs. 18–20, *G. microphthalma* (Angelin 1851) p. 32 pl. vii figs. 13–17, *G. ? angermanensis* **sp. n.** Cambrian (Middle) Sweden (Ångermanland) p. 34 pl. viii fig. 1, WESTERGÅRD Sverig. geol. Unders. Afh. [C] No. 526 1953.

Hallaspis Raasch & Lochman 1943 referred to Raymondinidae p. 199, HUPÉ **28.**

Hamatolenus Hupé [nom. nud.] referred to Protoleninae **subfam. n.** p. 180, HUPÉ **28.**

Hamatolenus **gen. n.** [Protolenidae (Protoleninae)] pp. 156, 219 for type *H. continuus* **sp. n.** [nom. nud. 1952] including *Protolenus elegans* var. *marocana* Neltner 1938 *partim* [pl. 12 figs. 2–7, pl. 13 figs. 8–12] p. 242 pl. x figs. 9, 12, ? 13, text-fig. 48 (5), *H. c.* var. *acutus* **var. n.** including *P. e.* var. *m.* Neltner 1938 *partim* [pl. 13 fig. 13] p. 242 pl. x fig. 17 Cambrian (Lower) Morocco (Anti-Atlas), HUPÉ Notes Serv. Min. Maroc. No. 103 1953.

Hanburia Walcott 1916 referred to Dolichometopidae (Hanburiinae) **subfam. n.** p. 185, HUPÉ **28.**

Hanburiinae **subfam. n.** [Dolichometopidae] for *Hanburia* Walcott 1916 p. 185, HUPÉ Traité de Paléontologie **3** 1953.

Haniwa Kobayashi 1933 referred to Anomocarellidae **fam. n.** p. 189, HUPÉ **28.**

Hardyoides Kobayashi 1938 referred to Levisaspidinae **subfam. n.** p. 201, HUPÉ **28.**

Hardyoides Kobayashi 1938 considered an independent genus (not a subgenus of *Holcacephalus* Resser 1938), *Lévisaspis* Rasetti a synonym, *H. glabrus* (Shaw) 1951 *partim* new pygidium assigned (that assigned previously pl. 24 figs. 4, 5 referred to Pygidium No. 3) p. 145 pl. xviii figs. 20, 21, SHAW **65.**

Harpes costatus Ang. p. 1044, KOROLEVA **42.**

Harpes domina (Lamont) p. 28, LAMONT **44.**

Harpid recorded from Tremadoc of Australia p. 100, SINGLETON **69.**

Harpidae Hawle & Corda 1847 referred to Trinucleoidae p. 241, HUPÉ **28.**

Harpididae Whittington 1950 [emend.] referred to Trinucleoidae and taken to include *Harpides* Beyrich and *Dictyocephalites* Bergeron p. 241, *Loganopeltis* and *Loganopeltoides* removed to Loganopeltidae **fam. n.** p. 240, HUPÉ **28.**

Hartshillia Illing 1915 referred to Palaeolenidae (Hartshilliinae) **fam. et subfam. n.** p. 181, HUPÉ **28.**

Hartshillia marocana Gigout 1951 type of *Mesetaia* **gen. n.** p. 158, HUPÉ **29.**

Hartshilliinae Hupé 1952 [recte **subfam. n.**] [Palaeolenidae] for *Hartshillia* Illing 1915 and *Hartshillina* Lake 1940 p. 181, HUPÉ Traité de Paléontologie **3** 1953.

Hartshilliinae subfam. nov. [Hupé 1953] p. 158, HUPÉ **29.**

Hartshillina Lake 1940 referred to Palaeolenidae (Hartshilliinae) **fam. et subfam. n.** p. 181, HUPÉ **28.**

Hastagnostidae Howell 1937 taken to include *Hastagnostus*, *Ceratagnostus*, *Triplagnostus*, *Goniagnostus* and *Doryagnostus* p. 173, HUPÉ **28.**

Hebediscidae Kobayashi 1943 considered to include *Hebediscus* Whitehouse 1936, *Cobboldia* Lermontova 1940 and tentatively *Strenuaeva* R. & E. Richter 1940 p. 168, HUPÉ **28.**

Hebediscus Whitehouse 1936 retained even though *Dipharus* Clark 1923 may be its larval form, *H. attleborensis* (Shaler & Foerste) from Morocco p. 112 pl. xi figs. 19, 20, 24, *H. ?* sp. p. 60, *H. cobboldi* Resser 1937 see *Ptychoparia attleborensis*, HUPÉ **29.**

Hebediscus attleborensis Shaler et Foerste p. 43, HUPÉ **30.**

Hebediscus cobboldi Resser text-fig. 112 (7), HUPÉ **28.**

Hemiarges recorded p. 43, KAY **36.**

Hemiarges sp. p. 849, SINCLAIR **68.**

Hemigyraspis Raymond 1910 see Ogygiocarinae, *H. affinis* McCoy text-fig. 130 (3), HUPÉ **28.**

Hemirhodon Raymond 1937 referred tentatively to Holteriinae **subfam. n.** p. 186, HUPÉ **28.**

Hesperaspis Stoyanow 1936 accepted as a synonym of *Arapahoia* Miller 1936 p. 890, LOCHMAN **49.**

Hesperaspis Stoyanow 1936 a synonym of *Arapahoia* Miller 1936 p. 188, HUPÉ **28.**

Heterocaryon Raymond 1937 referred to Solenopleuridae (Heterocaryoninae) **subfam. n.** p. 195, HUPÉ **28.**

Heterocaryoninae **subfam. n.** [? Solenopleuridae] for *Heterocaryon*, ? *Welleraspis* and *Pseudopetigurus* p. 195, HUPÉ Traité de Paléontologie **3** 1953.

Hicksia Delgado 1904 referred to Hicksiidae **fam. n.** p. 181, HUPÉ **28.**

Hicksiidae Hupé 1952 [recte **fam. n.**] for *Hicksia* Delgado 1904, referred to Ellipsocephalidea p. 181, HUPÉ Traité de Paléontologie **3** 1953.

Highgatea Raymond 1937 a synonym of *Loganellus* Devine 1863 [quod vide] p. 206, HUPÉ **28.**

Hillyardina Ross 1951 referred to Hystricuridae **fam. n.** p. 198, HUPÉ **28.**

Hillyardina Ross 1951 differences from *Hyperbolochilus* R. 1951 may be specific rather than generic, *H. semicylindrica* R. p. 163, *H.* sp. A p. 162 pl. viii figs. 5, 6, *H.* sp. listed p. 10, *H.* cf. *H. s.* listed p. 11, HINTZE **24.**

Hindermeyeria Hupé [nom. nud.] referred to Antatlasiidae p. 180, HUPÉ **28.**

Hindermeyeria **gen. n.** [Antatlasiidae] pp. 154, 206 for type *Strenuella* (*Strenuaeva*) *insecta* R. & E. Richter 1940 text-fig. 56 (21) line drawing, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Hoffetella Hupé [nom. nud.] referred to Palaeolenidae (Palaeoleninae) **fam. et subfam. n.** p. 181, HUPÉ **28.**

Hoffetella **gen. n.** [Palaeolenidae (Palaeoleninae)] for type *Micmacca elongata* Lu 1941 Cambrian (Lower) China p. 158, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Holcacephalinae Shaw 1951 see Norwoodiidae.

Holcacephalus Resser 1938 [sensu Lochman 1944] referred to Pilgrimiidae **fam. n.** p. 201, HUPÉ **28.**

Holcacephalus (*Hardyoides*) see *Hardyoides*, *H.* (*H.*) *glabrus* Shaw 1951 *partim* (pl. 24 figs. 4, 5) removed as Pygidium No. 3 p. 145, SHAW **65.**

Holcacephalus (*Lévisaspis*) see *Lévisaspis*.

Holdenia **gen. n.** [Isocolidae] for type *H. typa* **sp. n.** Ordovician (Middle) U.S.A. (Virginia) p. 9 pl. ii figs. 11–14, COOPER Mem. geol. Soc. Amer. No. 55 1953.

Holmia Marcou 1890 so ascribed, referred to Holmiinae **subfam. n.** p. 176, *H. kjerulfi* young stage (after Störmer) text-fig. 53, HUPÉ **28.**

Holmia kjerulfi p. 182 text-fig. 69 (5), HOLTEDAHL **25.**

Holmia kjerulfi (after Holm) text-fig. 13.35 E, SHROCK & TWENHOFEL **66.**

Holmia mickwitzi of Neltner 1938 referred to ? *Bondonella typica* **sp. n.** p. 284, HUPÉ **29.**

Holmiinae Hupé 1952 [recte **subfam. n.**] [Olenellidae] for *Callavia* Matthew 1897, *Cobboldus* Raw 1936, *Kjerulfia* Kiaer 1916, *Holmia* Marcou 1890 and *Bondonella* Hupé [nom. nud.] p. 176, HUPÉ Traité de Paléontologie **3** 1953.

Holmiinae subfam. nov. [Hupé 1953] — *Callavia* Matthew assigned only tentatively p. 125, see also *Bondonella* **gen. n.**, HUPÉ **29.**

Holocephalina Salter 1864 referred to Conocoryphidae (Holocephalinae) **subfam. n.** p. 194, HUPÉ **28.**

Holocephalinae [sic] **subfam. n.** [Conocoryphidae] for *Holocephalina* p. 194, HUPÉ Traité de Paléontologie **3** 1953.

Holotrachelidae Warburg 1925 referred to Proetoidae p. 216, HUPÉ **28.**

Holotrachelus punctillosus Törnquist text-fig. 5E line drawing, HUPÉ **28.**

Holstonia Resser 1938 probably a subjective synonym of *Bonneterrina* Lochman 1936 but adult relations uncertain p. 887, LOCHMAN **48.**

Holteria Walcott 1924 referred to Dorypygidae (Holteriinae) **subfam. n.** p. 186, HUPÉ **28.**

Holteriinae **subfam. n.** [Dorypygidae] for *Holteria, Olenoides* and ? *Hemirhodon* p. 186, HUPÉ Traité de Paléontologie **3** 1953.

Homagnostus Howell 1935 referred to Agnostidae [s. str.] p. 172, HUPÉ **28.**

Homagnostus pehuenchensis **sp. n.** p. 1 [unillustr.], *H. asperoensis* **sp. n.** p. 4 [unillustr.] Cambrian (Upper) Argentina, RUSCONI Bol. paleont. B. Aires No. 27 1953.

Homagnostus peladensis Rusc., *H. manantialensis* R., *H. villavicensis* R., *H. jarillensis* R. p. 6, RUSCONI **60.**

Homagnostus sp. [Shaw 1951] p. 139, SHAW **65.**

Homalonotidae Chapman 1890 referred to Calymenoidae, and classified into Eohomalonotinae, Homalonotinae and Trimerinae **subfamm. n.** p. 233, HUPÉ **28.**

Homalonotinae **subfam. n.** [Homalonotidae] for ? *Leiostegina* Kobayashi, ? *Lakaspis* K., *Burmeisterella* Reed, *Brongniartella* R., *Parahomalonotus* R., *Homalonotus* König and *Digonus* Gürich p. 233, HUPÉ Traité de Paléontologie **3** 1953.

Homalonotus König 1825 referred to Homalonotidae (Homalonotinae) **subfam. n.**, *Koenigia* Salter 1865 a synonym p. 233, HUPÉ **28.**

Homalonotus (*Digonus*) *asturco* **sp. n.** Devonian (Lower) Spain (Asturias) p. 335 text-figs. 1–4, KEGEL Zbl. Miner. Geol. Paläont. [B] **1927** 8.

Homalonotus noticus Clarke p. 167, KEGEL **39.**

Homalonotus sp. p. 192, WILLIAMS **84.**

Homalops Remelé 1885 date of legitimate publication so given—*Calyptaulax* Cooper 1930 a subjective synonym p. 103 footnote, *H.* cf. *altumi* R. p. 102 text-fig. 4 (line drawing), JAANUSSON **31.**

Homalopteon Salter 1865 see Ogygiocarinae.

Homalopteon portlocki (Salter) p. 239, WHITTARD *in* WHITTARD ET AL. **80.**

Homodictya Raymond 1937 — Shaw's assignment as a subgenus of *Blountia* accepted p. 886, LOCHMAN **48.**

Homoglossa Raymond 1912 see Ogygiocarinae.

Homolichadinae Phleger 1936 emend. taken to include *Conolichas* and *Hoplolichas* Dames, *Trimerolichas* Phleger and *Leiolichas* Schmidt p. 227, HUPÉ **28.**

Homolichas Schmidt 1885 a synonym of *Conolichas* Dames 1877 p. 227, HUPÉ **28.**

Homotelus Raymond 1920 see Asaphinae.

Homotelus aff. *rubzovensis* Web. p. 1044, KOROLEVA **42.**

Homotelus sp. p. 852, SINCLAIR **68.**

Hoplolichas Dames 1877—*Hoplolichoides* Phleger 1936 and *Cyranolichas* P. 1936 synonyms p. 227, HUPÉ **28.**

Hoplolichoides Phleger 1936 a synonym of *Hoplolichas* Dames 1877 p. 227, HUPÉ **28.**

Hospes Stubblefield 1926 [sic] referred to Shumardiidae p. 242, HUPÉ **28.**

Housia Walcott 1916 referred to Housiidae **fam. n.** p. 204, *H. canadensis* W. text-fig. 124 (3), HUPÉ **28.**

Housiidae **fam. n.** [Asaphiscoidae **superfam. n.**] for *Housia* Walcott 1916 p. 204, HUPÉ Traité de Paléontologie **3** 1953.

Howellaspinae **subfam. n.** [Ptychopariidae] for *Howellaspis* and ? *Deissella* p. 193, HUPÉ Traité de Paléontologie **3** 1953.

Howellaspis Lochman and Denson 1944 referred to Ptychopariidae (Howellaspinae) **subfam. n.** p. 193, HUPÉ **28.**

Howellaspis Lochman & Denson 1944 a subjective synonym of *Bolaspidella* Resser 1937 p. 888, Lochman **48.**

Huarpagnostus Rusconi — *Canotagnostus* R. a subjective synonym, *H. costatus* R., *H. huarpeanus* R. for *C. h.* R. p. 6, Rusconi **60.**

Hukasawaia **subgen. n.** of *Richardsonella* Raymond 1924 [quod vide] p. 49, Kobayashi **40.**

Hungaia see *Ungaia.*

Hungaia magnifica (Billings) text-fig. 126 (3), Hupé **28.**

Hungaia magnifica (Billings) 1860 p. 140, Shaw **65.**

Hungaia puelchana **sp. n.** Cambrian (Upper) Argentina p. 1 text-figs. 1–2, Rusconi Bol. paleont. B. Aires No. 27 1953.

Hungaidae (Raymond 1924 emend.) referred to Dikelocephaloidae and classified into Hungainae, Dikelocephalininae and Tingocephalinae **subfam. n.** p. 213, Hupé **28.**

Hungainae Raymond 1924 emend. taken to include *Hungaia* alone p. 213, Hupé **28.**

Hupeia Kobayashi 1944 referred to Palaeolenidae (Palaeoleninae) **fam. et subfam. n.** p. 181, Hupé **28.**

Hypagnostus Jaekel 1909 referred to Cyclagnostidae [recte Cyclopagnostidae] p. 174, *H.* glabella (diagrammatic) text-fig. 114 (14), Hupé **28.**

Hypagnostus lasherensis **sp. n.** Cambrian (Upper) Argentina p. 3 [unillustr.], *? H. empozadensis* **sp. n.** p. 6 [unillustr.], Rusconi Bol. paleont. B. Aires No. 27 1953.

Hypagnostus mollensis Rusc. p. 6, Rusconi **60.**

Hyperbolochilus Ross 1951 referred to Hystricuridae **fam. n.** p. 198, Hupé **28.**

Hyperbolochilus Ross 1951 differences from *Hillyardina* R. 1951 may be specific rather then generic p. 163, *H. marginauctum* R. listed p. 11, Hintze **24.**

Hypothetica Ross 1951 referred to Hypotheticidae **fam. n.** p. 240, *H. rawi* R. text-fig. 11 (2) line drawing, Hupé **28.**

Hypotheticidae **fam. n.** [Trinucleoidae] for *Hypothetica* Ross 1951, *Amechilus* R. 1951 and *Licnocephala* R. 1951 p. 240, Hupé Traité de Paléontologie **3** 1953.

Hysteroleninae Troedsson 1937 emend. taken to include *Proceratopyge*, *Hysterolenus* and ? *Lopnorites* p. 204, Hupé **28.**

Hysteropleura Raymond 1937 accepted as a synonym of *Bolaspidella* Resser 1937 p. 892, Lochman **49.**

Hystricuridae **fam. n.** [Solenopleuroidae] for *Weeksina*, *Hystricurus* Raymond 1913, *Hyperbolochilus*, *Pachycranium*, *Parahystricurus*, *Amblycranium*, *Hillyardina* and *Psalikilus* p. 198, Hupé Traité de Paléontologie **3** 1953.

Hystricurus Raymond 1913 referred to Hystricuridae **fam. n.** p. 198, *H. flectimembrus* Ross text-fig. 122 (9), Hupé **28.**

Hystricurus genalatus Ross p. 164 pl. vi figs. 1–6, *H. paragenalatus* R. p. 165 pl. vi figs. 12–14, *H. politus* R., p. 165 pl. vi figs. 7–11 (fig. 7 possibly cf. *H. ?* sp. F. Ross), *H. robustus* R. p. 166 pl. viii fig. 2, *H.* sp. C. Ross p. 166 pl. vi figs. 15–16, *H. lepidus* **sp. n.** p. 166 pl. vii figs. 10–12, *H. millardensis* **sp. n.** p. 168 pl. vi figs. 17–21, *H. ?* sp. p. 169 pl. vi fig. 22, *H.* sp. [undescr.] pl. vi figs. 23–26 Ordovician (Lower) U.S.A. (Utah), *H.* sp. listed p. 9, *H.* cf. *H. oculilunatus* R. listed p. 10, *H. o.* and *H. contractus* R. listed p. 11; *H. nudus* Poulsen 1937 and *H. ?* spp. E. and I. Ross 1951 considered congeneric with *Parapletho-peltis ? genacurvus* **sp. n.** [quod vide] p. 202, Hintze Bull. Utah geol. min. Surv. **48** 1953.

Hystricurus sp., *H. ?* sp. p. 911, Bass & Northrop **4.**

Idahoia Walcott 1924 referred to Parasolenopleuridae **fam. n.** p. 189, Hupé **28.**

Idahoia wisconsensis (Owen) 1852 p. 566 pl. lxi fig. 11, *I. latifrons* (Shumard) 1862 holotype stated to be lost p. 566 pl. lx fig. 11, *I.* cf. *I. l.* pl. lx fig. 12, *I. hamulus* (Owen) p. 557, Berg **5.**

Iddingsia Walcott 1925 a plastic genus, *Plataspella* Wilson 1949 a subjective synonym p. 888, LOCHMAN **48.**

Idiomesus Raymond 1924 referred to Shumardiidae p. 242, to Utiadae p. 201, *Stigmametopus* Rasetti 1944 a synonym, HUPÉ **28.**

Idiorhapha **gen. n.** [no family assigned] for type *Cheirurus solitarius* Billings 1865 Ordovician Canada (Quebec) holotype figured p. 675 pl. lxix figs. 11–15, similarities of *I.* to *Sphaerexochus* and *Acheilus* discussed p. 676, WHITTINGTON J. Paleont. **27** 5 1953.

Illaenicae **superfam. n.** to include Illaenidae, Scutellidae, Styginidae and Bathyuridae p. 648, WHITTINGTON J. Paleont. **27** 5 1953 [Sept.].

Illaenid fragments (undetermined) p. 102, JAANUSSON **31.**

Illaenidae Hawle & Corda 1847 referred to Scutelloidae **superfam. n.** and classified into Illaeninae and Bumastinae p. 225, HUPÉ **28.**

Illaenidae removed from Corynexochoidae to Illaenicae **superfam. n.** p. 649, WHITTINGTON **81.**

'*Illaenopsis*' *acuticaudata* Hicks p. 239, WHITTARD *in* WHITTARD ET AL. **80.**

Illaenuridae (Raymond 1924) referred to Olenoidae **superfam. n.** and taken to include *Platycolpus*, *Yokunaspis* [recte *Yukonaspis*], *Cholopilus*, *Illaenurus* and *Lecanopyge* p. 208, HUPÉ **28.**

Illaenurus truncatus Feniak p. 557, BERG **5.**

Illaenus americanus Billings p. 847, *I.* sp. p. 845, SINCLAIR **68.**

Illaenus centratus [recte *centrotus*] from Ireland line drawing text-fig. 11 (6), CHARLESWORTH **9.**

Illaenus centrotus Dalman probably not found in Ireland, *I. bowmanni* (Salter) may occur in Tyrone p. 435, LAMONT **45.**

Illaenus crassicauda (Wahlenb.) p. 416, JAANUSSON **32.**

Illaenus esmarki text-figs. 73 (12, 13), HOLTEDAHL **25.**

Illaenus glaber p. 68, *I. parvulus* p. 94, *I.* sp. p. 65, STØRMER **73.**

Illaenus katzeri Barrande line drawing showing muscle impressions text-fig. 27, *I. depressicapitus* Bradley similarly text-fig. 26 (1), HUPÉ **28.**

Illaenus linnarssoni Holm, *I. oviformis* Warb., *I. l.* var. *avus* H. p. 1044, KOROLEVA **42.**

Illaenus oblongatus excellens Holm, *I. schroeteri* (Schlotheim) p. 478, *I. crassicauda* p. 497, JAANUSSON **33.**

Illaenus utahensis **sp. n.** Ordovician (Middle) U.S.A. (Utah) p. 169 pl. xxviii figs. 8–12, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Illaenus spp. (including *I. bowmanni* Salter and *I. murchisoni* S.) p. 195, WILLIAMS **84.**

Inglefieldia Poulsen 1927 referred to Alokistocarinae **subfam. n.**, but pygidial characters suggest affinity with Crepicephalidae p. 190, HUPÉ **28.**

Inouyia Walcott 1911 referred to Utiadae p. 200, *Eurostina* may be ancestral p. 192 footnote, *I. capax* (W.) text-fig. 123 (3), HUPÉ **28.**

Inouyina Poletayeva 1936 referred tentatively to Missisquoiidae **fam. n.** p. 205, HUPÉ **28.**

Inouyops Resser 1942 referred tentatively to Utiadae p. 200, HUPÉ **28.**

Iranaspis King 1937 referred to Saukiinae p. 215, HUPÉ **28.**

Iranella Hupé **gen. nondescr.** [Parasolenopleuridae] for type *Saratogia latifrons* King 1937 p. 189 text-fig. 9 (5) line drawing, HUPÉ **28.**

Irania King 1937 referred to Ptychopariidae (Iraniinae) **subfam. n.** p. 193, HUPÉ **28.**

Iraniinae **subfam. n.** [Ptychopariidae] for *Irania* King 1937 and ? *Bythicheilus* p. 193, HUPÉ Traité de Paléontologie **3** 1953.

Irvingella Ulrich & Resser 1925—*Irvingellina* Kobayashi 1936 and *Parairvingella* K. 1938 subjective synonyms p. 887, LOCHMAN **48.**

Irvingella jorusconii **sp. n.** p. 2 text-fig. 2, *I. platycephala* **sp. n.** p. 2 text-fig. 3, *I. obliquoensis* **sp. n.** p. 2 text-figs. 4, 5, Cambrian (Upper) Argentina, RUSCONI Bol. paleont. B. Aires No. 28 1953.

Irvingella major p. 556, BERG **5.**

Irvingellina Kobayashi 1936 a subjective synonym of *Irvingella* Ulrich & Resser 1925 p. 887, LOCHMAN **48.**

Irvingelloides Kobayashi free cheek associated by K. discussed p. 894, LOCHMAN **49.**

Isbergia Warburg 1925 considered Proetinae ? p. 598, PILLET **54.**

Isbergia virginica **sp. n.** Ordovician (Middle) U.S.A. (Va) p. 20 pl. i figs. 20–22, 27, COOPER Mem. geol. Soc. Amer. No. 55 1953.

Ischyrotoma Raymond 1925 referred to Punctulariidae p. 199, HUPÉ **28.**

Isocolidae see *Holdenia* **gen. n.**

Isoteloides Raymond 1910 see Asaphinae.

Isoteloides polaris Poulsen p. 171 pl. xvii figs. 9–15, *I. flexus* **sp. n.** p. 172 pl. xvii figs. 2c, 3–8, *I. ? genalticurvatus* **sp. n.** p. 173 pl. xvii figs. 1, 2 a-b, pl. xviii figs. 1–3 Ordovician (Lower) U.S.A. (Utah), *I.* sp. listed p. 16, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Isoteloides cf. *whitfieldi* Raymond fragments [may represent two or more spp.] some of which may be *I. ? polaris* Poulsen p. 19, ADAMS & COWIE **1.**

Isotelus Dekay 1824 see Asaphinae, *I. gigas* D. text-fig. 130 (4), HUPÉ **28.**

Isotelus recorded p. 34, EVITT **16.**

Isotelus recorded p. 294, STÄUBLE **72.**

Isotelus aktchokensis Web. p. 1044, KOROLEVA **42.**

Isotelus gigas (Dekay) p. 55, KAY **36.**

Isotelus cf. *I. gigas* DeKay p. 853, *I.* spp. pp. 84 5, 847, SINCLAIR **68.**

? Isotelus quebradensis **sp. n.** Ordovician Argentina (Mendoza) p. 6 [unillustr.], RUSCONI Bol. paleont. B. Aires No. 25 1953.

Isotelus robustus text-figs. 76 (1, 2), HOLTEDAHL **25.**

Isotelus ? sp. p. 18, ADAMS & COWIE **1.**

Ithycephalus Resser 1938—Shaw's opinion that *I.* is a subjective synonym of *Kingstonia* Walcott 1925 not upheld, *I.* compared with *Bienella* Lochman 1944 p. 886, LOCHMAN **48.**

Ityophoridae Warburg 1925 referred to Trinucleoidae p. 241, HUPÉ **28.**

Ityophorus undulatus Warburg reconstruction text-fig. 140 (3), HUPÉ **28.**

Jalonella **subgen. n.** of *Termierella* **gen. n.** [quod vide].

Jeffersonia Ulrich in Poulsen 1927 referred to Bathyuridae, discussed and restricted to type species *J. exterminata* P. p. 662, *J. peltabella* Ross 1951 type of *Peltabellia* **gen. n.** p. 662, *J. jennii* C. 1944 *partim* [cranidium] referred to *Goniotelina* **gen. n.** p. 666, *J. missouriensis* C. 1944 *partim* and probably *J.* sp. A. & *J. ?* sp. B. Hintze 1953 to *Peltabellia* p. 662, *J. granosa* C., *J. mediacrista* C. & *J. producta* C. discussed p. 669 and with other *J.* spp. of Cullison suggested to be excluded from *J.* p. 662, WHITTINGTON **81.**

Jeffersonia sp. A. p. 174 pl. x figs. 7–10, *J. ?* sp. B. p. 175 pl. ix figs. 8, 11–12, *J. ?* sp. listed p. 16 Ordovician (Lower) U.S.A. (Utah), HINTZE **24.**

Jeffersonia ? sp. [B.] Hintze 1952 [recte 1953] discussed, cranidium may belong to *Psalikilopsis* **gen. n.** p. 640, ROSS **59.**

Jeholaspis **gen. n.** (**nom. n.** for *Pseudosaukia* Kobayashi 1952 *non* Rasetti 1944) p. 88, KOBAYASHI Trans. palaeont. Soc. Japan NS No. 12 1953.

Jujuyaspinae **subfam. n.** [Olenidae] for *Jujuyaspis* Kobayashi 1936 p. 207, HUPÉ Traité de Paléontologie **3** 1953.

Jujuyaspis see Jujuyaspinae **subfam. n.**

Jujuyaspis ? robusta **sp. n.** Cambrian (Upper) Sweden (Nerike) p. 75 text-fig. 2, *J.* sp. [undescr.] Tremadoc Sweden (Vestergötland), *J.* n. sp. [undescr. attrib. to Henningsmoen] Tremadoc Norway (Oslo & Mjösa) p. 74, TJERNVIK Geol. Fören. Stockh. Förh. **75** 1 1953.

Kainella Walcott 1925 referred to Richardsonellidae p. 206, *K. billingsi* W. text-fig. 9 (4) line drawing, HUPÉ **28.**

Kainella Walcott 1924 [recte 1925] discussed and referred to Kainellinae **subfam. n.** [quod vide] p. 43, *K. billingsi* discussed pp. 40–41, *K. inexpectans* (Walcott) p. 44, *K. primigena* **sp. n.** Yunnan for *Anomocare* cf. *megalurus* of Mansuy 1916 p. 44 pl. iv fig. 9, *K. euryrachis* **sp. n.** Korea p. 45 pl. iii fig. 9, *K. flagricauda* (White) p. 45 pl. iii fig. 5, *K. stenorachis* **sp. n.** Canada (British Columbia) p. 46 pl. iii figs. 6–7 Ordovician (Lower); *K. lata* Kobayashi 1935 type of *Pseudokainella* (*Parakainella*) **subgen. n.** to which *K. conica* K. 1935 also referred p. 43; *K. ? columbiana* Harrington & Kay 1951 so referred p. 57, *K. rotundicauda* **sp. n.** for *K. rugosa* Harrington 1938 p. 58, KOBAYASHI Japan. J. Geol. Geogr. **23** 3 1953.

Kainella recorded p. 140, SHAW **65.**

Kainella vertical range discussed p. 189, *K.* sp. listed p. 9, HINTZE **24.**

Kainellidae see *Lingukainella* **gen. n.**, *Parakainella*, *Hukasawaia* **subgenn. n.**

Kainellidae Ulrich & Resser 1930 a synonym of Richardsonellidae Raymond 1924 [quod vide] p. 206, HUPÉ **28.**

Kainellidae Ulrich & Resser 1930 discussed and classified into Kainellinae **subfam. n.**, Richardsonellinae Raymond 1924, Apatokephalinae **subfam. n.** and Macropyginae Kobayashi 1937 p. 38, KOBAYASHI **40.**

Kainellinae **subfam. n.** of Kainellidae Ulrich & Resser 1930 to include *Kainella* Walcott 1924, *Pseudokainella* Harrington 1938 and *Lingukainella* **gen. n.** p. 43, KOBAYASHI Japan. J. Geol. Geogr. **23** 3 1953.

Kaninia Walcott & Resser 1925 referred to Anomocarellidae **fam. n.** p. 189, HUPÉ **28.**

Kaolishania Sun 1924 referred tentatively to Missisquoiidae **fam. n.** p. 205, HUPÉ **28.**

Kaolishaniella Sun 1924 referred to Mansuyellinae **subfam. n.** p. 204, HUPÉ **28.**

Kaskia Weller 1936 referred to Griffithidinae **subfam. n.** p. 219, HUPÉ **28.**

Kawina Barton 1915 relations to *Pseudosphaerexochus* discussed p. 176, *K. ? sexapugia* Ross p. 178 pl. xxi fig. 18, *K. ? webbi* **sp. n.** p. 178 pl. xxi figs. 15–17, *K. ? unicornica* **sp. n.** p. 179 pl. xxviii figs. 1–5 Ordovician (Middle) U.S.A. (Utah), HINTZE Bull Utah geol. min. Surv. **48** 1953.

Kawina sexapugia Ross young stages figured p. 644 pl. lxii figs. 1, 2, 5, Ross **59.**

Kazelia Walcott & Resser 1924 [recte 1925] referred to Camaraspidae **fam. n.** p. 889, *Bynumiella ? oklahomensis* Resser 1942 congeneric with *K.* p. 890, LOCHMAN **49.**

Keithia Raymond 1924 referred to Euptychaspidae **fam. n.** p. 215, HUPÉ **28.**

Keithiella Rasetti 1944 referred to Euptychaspidae **fam. n.** p. 215, HUPÉ **28.**

Kendallia Raasch 1939 provisionally considered valid (although its definition does not comply with Art. 25 para. c. of International Rules) and described, *K. biforota* **sp. n.** Cambrian (Upper) U.S.A. (Wisconsin) p. 562 pl. lix figs. 7, 10, *K. eryon* (Hall) 1863 holotype refigured p. 562 pl. lix fig. 9, pl. lx fig. 1 and *Orygmaspis e.* Shimer & Shrock 1944 excluded (referred to *Parabolinoides hebe* Frederickson), BERG J. Paleont. **27** 4 1953.

Kerakephalichas Phleger 1936 a synonym of *Tetralichas* P. 1936 p. 227, HUPÉ **28.**

Kingaspidinae Hupé 1952 [recte **subfam. n.**] [Palaeolenidae] to include *Kingaspis* Kobayashi 1935 and *Mesetaia* Hupé [nom. nud.] p. 181, HUPÉ Traité de Paléontologie **3** 1953.

Kingaspidinae nov. subfam.[Hupé 1953] taken to include *Kingaspis* and *Mesetaia* **gen. n.** p. 158, Hupé **29.**

Kingaspidoides **subgen. n.** of *Kingaspis* [quod vide].

Kingaspis Kobayashi 1935 referred to Palaeolenidae (Kingaspidinae) **fam. et subfam. n.** p. 181, Hupé **28.**

Kingaspis Kobayashi 1935 discussed with diagnosis p. 252, divided into *K.* (*Kingaspis*) **subgen. n.** p. 254 for *K. campbelli* (King 1923) recorded from Morocco p. 254 pl. xi figs. 1–3 text-fig. 63 A, *K.* (*K.*) *brevifrons* **sp. n.** [referred on pl. expl. to *K.* (*Kingaspidoides*)] p. 255 pl. xi figs. 8, 11 text-fig. 56 (17), *K.* (*K.*) *alatus* **sp. n.** [referred on pl. expl. to *K.* (*Kingaspidoides*)] p. 256 pl. xi figs. 4, 7, ? 9 [cf. *alatus* on pl. expl.]; *K.* (*Kingaspidoides*) **subgen. n.** p. 254 for type *K.* (*K.*) *armatus* **sp. n.** p. 256 pl. xi figs. 12, 13, 15 text-fig. 56 (19) [where *Kingaspidoides* treated as a genus], *K.* (*K.*) *triangularis* **sp. n.** p. 257 pl. xi figs. 5, 18, ? 14, text-fig. 56 (18) Cambrian (Lower) Morocco (Anti-Atlas), Hupé Notes Serv. Min. Maroc No. 103 1953.

Kingaspis recorded from same beds as *Paradoxides* p. 1170, Choubert & Hupé **11.**

Kingaspis armatus Hupé, *K. brevifrons* H., *K.* cf. *alatus* H., *K. campbelli* King p. 1061, Dresnay & Hupé **14.**

Kingstonia Walcott 1924 referred to Plethopeltidae p. 188, *K. apion* W. text-fig. 120 (4), Hupé **28.**

Kingstonia Walcott 1925 [sic]—*Ithycephalus* Resser 1938 not a subjective synonym, *Ucebia* W. 1925 a subjective synonym p. 886, Lochman **48.**

Kingstonia Walcott 1925 [sic] occurrence in Ozarkian of Vermont unverified, considered limited to Dresbachian of N. America, *K.* spp. of Kobayashi from Asia referred to *Stenopilus* p. 891, Lochman **49.**

Kingstonia apion Walcott p. 281, Wilson [Z.R. **90** 11 title **119**].

Kingstoniidae Kobayashi 1933—Shaw's 1952 assignment as a subfamily of Asaphiscidae not accepted, considered a separate family including *Kingstonia* Walcott 1925, *Ankoura* Resser 1938, *Brachyaspidion* Miller 1936, *Bynumia* W. 1925, *Bynumiella* R. 1942 and *Bynumina* R. 1942 p. 890, Lochman **49.**

Kiowaia [misspelt *Kiowoia*] Frederickson 1949 referred to Solenopariidae **fam. n.** p. 195, Hupé **28.**

Kirkella Kobayashi 1942 see Asaphinae, *Ptyocephalus* Whittington 1948 accepted as a synonym, pygidia text-figs. 18 (5, 6), Hupé **28.**

Kirkella Kobayashi 1942 discussed, *Billingsura* Ulrich and *Ptyocephalus* Whittington mentioned as equivalent p. 181, *K. declevita* Ross [misspelt *declivata* and *declivita* in places] p. 183 pl. xv figs. 3–4, 9–12, *K.* cf. *K. vigilans* (W.) p. 184 pl. xv figs. 5–8, 13, *K. yersini* **sp. n.** p. 184 pl. xiv figs. 7–15, *K. accliva* **sp. n.** p. 185 pl. xiv figs. 6, 16–17, pl. xv figs. 1–2, *K. fillmorensis* **sp. n.** p. 186 pl. xiv figs. 1–5 Ordovician (Lower) U.S.A. (Utah), Hintze Bull Utah. geol. min. Surv. **48** 1953.

Kistocare [misspelt *Kistocure*] Lochman 1948 referred tentatively to Alokistocarinae **subfam. n.** p. 190, Hupé **28.**

Kjerulfia Kiaer 1916 referred to Holmiinae **subfam. n.** p. 176, *K. lata* K. text-figs. 5 A, 9 (1) (diagrammatic), Hupé **28.**

Kjerulfia ? lundgreni of Raw 1936 may belong to *Fallotaspis* **gen. n.** p. 127, Hupé **29.**

Klotziella Raymond 1928 referred to Bathyuriscinae **subfam. n.** p. 184, Hupé **28.**

Knechtelia Lochman 1950 referred to Genievevellidae **fam. n.** p. 210, Hupé **28.**

Knechtelia provisionally excluded from Menomoniidae p. 893, Lochman **49.**

Kobayashia Harrington 1938 — *Xenostegium ? sulcatum* Walcott and *X. ? eudocia* W. excluded p. 135, *K. taurus* (W.) see *Xenostegium*, Hintze **24.**

Kochaspis Resser 1935 referred to Crepicephalinae **subfam. n.**, *Palaeocrepicephalus* Kobayashi 1935 a synonym p. 202, HUPÉ **28.**

Kochaspis aff. *K. celer* (Walcott) of Lochman 1952 referred to "*Ptychoparia*" aff. "*P.*" *clusia* W. p. 486, LOCHMAN **47.**

Kochiella Poulsen 1927 referred to Alokistocarinae **subfam. n.** p. 190, HUPÉ **28.**

Kochina Resser 1935 referred to Alokistocarinae **subfam. n.** p. 190, HUPÉ **28.**

Koenigia Salter 1865 a synonym of *Homalonotus* König 1825 p. 233, HUPÉ **28.**

Kogenium Kobayashi 1935 referred to Mansuyellinae **subfam. n.** p. 204, HUPÉ **28.**

Koldinia Walcott & Resser 1925 referred to Plethopeltidae p. 188, tentatively to Leiosteginae p. 210, HUPÉ **28.**

Koldinia Walcott & Resser 1924 [sic] referred to Camaraspidae **fam. n.** p. 889, LOCHMAN **49.**

Koldinioidia Kobayashi 1931 referred to Shumardiidae p. 242, HUPÉ **28.**

Kolpura Endo & Resser 1937 referred tentatively to Kainellidae (Richardsonellinae), *K. liches* (Walcott) p. 50 pl. iv fig. 6 (line drawing), KOBAYASHI **40.**

Komaspidae Kobayashi 1935 referred to Telephoidae and taken to include *Komaspis*, ? *Komaspidella*, *Parairvingella*, *Irvingella*, *Drumaspis*, *Chariocephalus*, *Carolinites*, *Goniophrys* and ? *Calyptomma* p. 229, HUPÉ **28.**

Komaspidae Kobayashi 1935 considered to include *Komaspis*, *Irvingella*, *Dartonaspis*, *Princetonella*, *Irvingelloides*, *Goniophrys*, *Carolinites* and *Benthamaspis*, evolution discussed p. 893 text-fig. 1, LOCHMAN **49.**

Koněprusia Prantl & Přibyl 1949 considered Odontopleuroidae incertae sedis p. 231, HUPÉ **28.**

Kootenia Walcott 1908 referred to Dorypyginae, *Notasaphus* Gregory 1903 a synonym p. 186, HUPÉ **28.**

Kootenia westergårdi Thorsl. listed p. 36, WESTERGÅRD **79.**

Koptura Resser & Endo 1937 referred to Kopturinae **subfam. n.** p. 202, but tentatively to Anomocaridae p. 212, HUPÉ **28.**

Kopturinae **subfam. n.** [? Crepicephalidae] for *Koptura* Resser & Endo 1937 p. 202, HUPÉ Traité de Paléontologie **3** 1953.

Kuanyangia [spelt *Kuanyiangia* on p. 152] **gen. n.** [? Latiredlichiidae] pp. 152, 195 for type *Redlichia pustulosa* Lu 1941 Cambrian (Lower) Yunnan, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Kyphocephalus Miller 1936 referred tentatively to Emmrichellidae p. 200, tentatively to Talbotinidae **fam. n,** p. 197, HUPÉ **28.**

Labradoria Resser 1936 referred provisionally to Yinitidae **fam. n.** p. 177, HUPÉ **28.**

Lachnostoma Ross 1951 see Asaphinae.

Lachnostoma latucelsum Ross p. 187 pl. xviii figs. 4–16, *L.* ? sp. [hypostome] p. 187 pl. xx fig. 17, HINTZE **24.**

Lakaspis Kobayashi 1937 referred tentatively to Homalonotinae **subfam. n.** p. 233, HUPÉ **28.**

Lancastriidae Kobayashi 1935 referred tentatively to Olenelloidae, but may be related to Oryctocephalidae p. 176, HUPÉ **28.**

Latiredlichia Hupé [nom. nud.] referred to Latiredlichiidae p. 179, HUPÉ **28.**

Latiredlichia **gen. n.** [Latiredlichiidae] pp. 151, 194 for type *Redlichia* cf. *walcotti* Saito 1934 (*non* Mansuy) renamed *L. saitoi* **sp. n.** Cambrian (Lower) Korea p. 194 footnote text-fig. 36 (17) line drawing, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Latiredlichiidae Hupé 1952 [recte 1953] for *Saukiandops*, *Latiredlichia*, *Archaeops* and *Pseudosaukianda* [nomina nuda] and tentatively *Eops* R. & E. Richter p. 179, HUPÉ **28.**

Latiredlichiidae **fam. n.** [Redlichioidae] p. 151 for *Latiredlichia*, *Saukiandops*, *Archaeops*, ? *Kuanyangia*, *Pseudosaukianda* **genn. n.**, ? *Eops* R. & E. Richter, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Latoucheia **subgen. n.** of *Protolenus* [quod vide].

Lecanopleura ? recorded p. 140, SHAW **65.**

Lecanopyge Raymond 1937 referred to Illaenuridae p. 208, HUPÉ **28.**

Lecanopyge Raymond 1937 referred tentatively to Leiostegiidae Bradley 1925 p. 670, WHITTINGTON **81.**

Lecanopyge Raymond 1937 referred to Lecanopygidae **fam. n.** p. 889, LOCHMAN **49.**

? *Lecanopyge emposadense* **sp. n.** Ordovician (Lower) Argentina (Mendoza) p. 6 text-fig. 7, RUSCONI Bol. paleont. B. Aires No. 25 1953.

Lecanopygidae **fam. n.** to include *Lecanopyge* Raymond 1937, *Platydiamesus* R. 1937, *Rasettia* Lochman 1953, *Resseraspis* Rasetti 1945 and *Strigigenalis* Whittington & Ross 1953 p. 889, LOCHMAN J. Paleont. 27 6 1953.

Leiagnostidae Jaekel 1909 accepted as a family for *Leiagnostus* alone p. 172, HUPÉ **28.**

Leiocoryphe Clark 1924 referred to Plethopeltidae p. 188, HUPÉ **28.**

Leiostegiidae Bradley 1925 referred to Olenoidae **superfam. n.** and classified into Mansuyinae **subfam. n.**, Eochuanginae and Leiostegiinae p. 208, Pagodidae Kobayashi 1935 *p. p.* a synonym, HUPÉ **28.**

Leiostegiidae Bradley 1925 discussed and considered tentatively to include *Leiostegium* Raymond 1913, *Lloydia* Vogdes 1890, *Lecanopyge* R. 1937, *Platycolpus* R. 1913, *Strigigenalis* and *Psephosthenaspis* **genn. n.** p. 670, family may be related to Bathyuridae, WHITTINGTON **81.**

Leiostegina Kobayashi 1937 referred tentatively to Homalonotinae **subfam. n.** p. 233, HUPÉ **28.**

Leiosteginae Kobayashi 1935 taken to include *Leiostegium*, *Leiostegioides*, *Idamea*, *Chuangiella*, *Bernicella*, *Bienella*, *Pseudolisania*, *Pagodia*, *Chuangia* and ? *Koldinia* p. 210, HUPÉ **28.**

Leiostegium Raymond 1913 list of described spp., range discussed, *L. formosa* **sp. n.** p. 189 pl. viii figs. 8–10 Ordovician (Lower) U.S.A. (Utah), *L. manitouensis* Walcott pp. 9, 189, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Leiostegium manitouensis Walcott text-fig. 125 (7), HUPÉ **28.**

Lejopyge see *Agnostus*.

Lejopyge empozadensis **sp. n.** Cambrian (Upper) Argentina p. 6 [unillustr.], *L. pedrensis* for *Spinagnostus p.* Rusconi 1951, RUSCONI Bol. paleont. B. Aires No. 27 1953.

Lejopygidae Kobayashi 1939 considered of family status p. 172, HUPÉ **28.**

Leonaspis ? recorded p. 34, EVITT **16.**

Lepidoproetus Erben 1951 considered a subgenus of *Cornuproetus* R. & E. Richter 1919 p. 598, PILLET **54.**

Leptopilus Raymond 1924 referred tentatively to Bathyurellinae **subfam. n.** p. 198, tentatively to Liostracinidae p. 201, HUPÉ **28.**

Leptoplastinae Angelin 1854 taken to include *Leptoplastus*, *Eurycare*, *Ctenopyge* and *Sphaerophthalmus* p. 207, HUPÉ **28.**

Leptoplastus salteri (Callaway) discovery of protaspis recorded p. 90, RAW **56.**

Levisapidae [? recte Levisaspidinae] **subfam. n.** [Norwoodiidae] for *Levisaspis* Rasetti 1943 and *Hardyoides* p. 201, HUPÉ Traité de Paléontologie **3** 1953.

Levisaspidinae see Levisapidae.

Levisaspis Rasetti 1943 referred to Norwoodiidae (Levisapidae) [sic] **subfam. n.** p. 201, HUPÉ **28.**

Lévisaspis [*Levisaspis*] Rasetti 1943 a synonym of *Hardyoides* Kobayashi 1938, *L. typicalis* R. discussed p. 145, SHAW **65.**

Lévisella [*Levisella*] *brevifrons* Rasetti 1944, *L.* sp. p. 140, SHAW **65.**

Levisella relations to Kainellidae discussed p. 42, *L. tribulus* for *Dikelocephalus tribulus* [recte *tribulis*] Walcott 1912 p. 58, *L. t.* and *L. oweni* (Billings) listed under Kainellidae, KOBAYASHI **40.**

Liaotungia Resser & Endo 1937 referred to Menocephalinae **subfam. n.** p. 195, HUPÉ **28.**

Lichad trilobite (hypostoma only) gen. ? sp. ? p. 1037, BARNES, CLOUD & DUNCAN **3.**

Lichadidae Hawle & Corda 1847 emend. Phleger 1936 classified into Lichadinae, Homolichadinae, Tetralichadinae and Echinolichadinae p. 227, HUPÉ **28.**

Lichadoidae Kobayashi 1935 classified after Phleger into Lichadidae and Trochuridae p. 226, HUPÉ **28.**

Lichapyge Callaway 1877 referred tentatively to Kainellidae (Macropyginae), *L. cuspidada* [sic] C. pl. iv fig. 7 (line drawing), *L. primulus* (Barrande) for *Lichas p.* B. 1868 [quod vide] p. 56 pl. iv fig. 12 (line drawing), *L. ? problematica* Reed 1906 excluded from genus (referred to ? Dikelocephalidae), KOBAYASHI **40.**

Lichas Dalman 1827—*Metopolichas* Gürich 1901 and *Autolichas* Reed 1923 synonyms p. 227, HUPÉ **28.**

Lichas (*Euarges*) *hendersoni* [sp. nondescr. Lamont 1948] and *L.* (new subgenus) suggested protective mimicry p. 28, LAMONT **44.**

Lichas primulus Barrande 1868 referred to *Lichapyge* Callaway 1877 p. 56 pl. iv fig. 12 (line drawing), *L.* (*Corydocephalus*) *geikie* [sic] Nicholson & Etheridge and var. King 1923 and *L. wesenbergensis* Schmidt 1885 relations to *Lichapyge* discussed, KOBAYASHI **40.**

Lichas sp. p. 81, STØRMER **73.**

Lichengia Kobayashi 1942 referred to Saukiinae p. 215, HUPÉ **28.**

Licnocephala Ross 1951 referred to Hypotheticidae **fam. n.** p. 240, HUPÉ **28.**

Licnocephala Ross 1951 emended diagnosis, assignment to Bathyuridae suggested, *L. cavigladius* Hintze ontogenetic stages described p. 642 pl. lxiii fig. 1, pl. lxiv figs. 4–29, *L. ovata* **sp. n.** for *L. ?* sp. Ross 1951 Ordovician (Lower) U.S.A. (Idaho) p. 644 pl. lxiv figs. 1–3, Ross J. Paleont. **27** 5 1953.

Licnocephala ? cavigladius **sp. n.** p. 190 pl. x figs. 1–5, *L. ?* sp. p. 192 pl. viii fig. 7 Ordovician (Lower) U.S.A. (Utah), *L. bicornuta ?* Ross listed p. 14, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Ligometopus Delo 1940 validity considered doubtful, *L. typus* Ulrich & D. holotype refigured and reinterpreted as a combination of an isotelid and a *Calliops* possibly *C. strasburgensis* U. & D. p. 33 pl. xix fig. 3, COOPER **12.**

Lingukainella **gen. n.** [Kainellidae] for type *L. robusta* **sp. n.** Ordovician (Lower) Canada (British Columbia) p. 48 pl. iii fig. 8, KOBAYASHI Japan. J. Geol. Geogr. **23** 3 1953.

Liobole see *Phillibole.*

Liocalymene clintoni ? Vanuxem p. 34, FISHER **18.**

Liosolenopleura Thoral 1939 referred to Elrathininae **subfam. n.** p. 192, HUPÉ **28.**

Liostracidae Angelin 1854 referred *partim* to Solenopleuridae A. 1854 pp. 7, 22, and *partim* to Andrarinidae Raymond 1937 p. 31, WESTERGÅRD **79.**

Liostracina krausei Monke text-fig. 123 (2), HUPÉ **28.**

Liostracinidae Raymond 1937 referred to Utioidae **superfam. n.** and taken to include *Liostracina*, *Liostracinoides* and ? *Leptopilus* p. 201, HUPÉ **28.**

Liostracus aculeatus (Angelin) type of *Parasolenopleura* **gen. n.**, *L. costatus* (A.) reaffirmed as type of *Andrarina* Raymond 1937 p. 21, *L. a.* Brögger 1878 (*non* A.) referred to [cf. on p. 23] *P. spinigera* **sp. n.** p. 29, *L. linnarssoni* B. 1878 *partim* referred to *P.* p. 26, WESTERGÅRD **79.**

Liostracus ? linnarssoni text-figs. 69 (11, 12), HOLTEDAHL **25.**

Litagnostus raymondi Shaw 1951 p. 139, SHAW **65.**

Litocodia Resser 1937 referred to Antagmidae **fam. n.** p. 192, HUPÉ **28.**

Llanoaspidella Tasch 1951 referred to Raymondininae p. 891, LOCHMAN **49.**

Llanoaspidella warriorsmarkensis Tasch p. 281, WILSON [Z.R. **90** 11 title **119**].

Llanoaspinae Lochman 1944 considered subfamily of Cedariidae including *Llanoaspis* L. 1938, *Genevievella* L. 1936 and *Metisaspis* Rasetti 1946 p. 891, LOCHMAN **49.**

Llanoaspis Lochman 1938 a synonym of *Genevievella* L. 1936 p. 210, HUPÉ **28.**

Llanoaspis Lochman 1938 diagnosis, not a synonym of *Genevievella* L. 1936 p. 891, LOCHMAN **49.**

Lloydia Vogdes 1890 referred to Leiostegiidae Bradley 1925 p. 670, WHITTINGTON **81.**

Lloydia bituberculosa Billings text-fig. 125 (5), HUPÉ **28.**

Lloydidae Kobayashi 1935 referred to Olenoidae **superfam. n.** and taken to include *Cheilocephalus*, *Ambonolium* and *Lloydia* p. 208, *Bayfieldia* [quod vide] may also belong p. 199, HUPÉ **28.**

Lloydolithus lloydi (Salter) p. 190, WILLIAMS **84.**

Lobocephalina Růžička 1939 referred to Conokephalinidae p. 214, HUPÉ **28.**

Loganellus Devine 1863—*Highgatea* Raymond 1937 a synonym, referred tentatively to Richardsonellidae p. 206, tentatively to Asaphiscidae p. 202, HUPÉ **28.**

Loganopeltidae **fam. n.** [Trinucleoidae] for *Loganopeltis* Rasetti 1943 and *Loganopeltoides* R. 1945 p. 240, HUPÉ Traité de Paléontologie **3** 1953.

Loganopeltis Rasetti 1943 referred to Loganopeltidae **fam. n.** p. 240, *L. depressa* R. text-fig. 10 (3) line drawing, HUPÉ **28.**

Loganopeltoides Rasetti 1945 referred to Loganopeltidae **fam. n.** p. 240, *L. kindlei* R. and *L. zenkeri* Billings text-figs. 10 (1, 2) line drawings, HUPÉ **28.**

Lonchocephalidae **fam. n.** [Solenopleuroidae] for *Chondroparia*, *Lonchocephalus*, *Amiaspis* and ? *Piedmontia* p. 197, HUPÉ Traité de Paléontologie **3** 1953.

Lonchocephalus Owen 1852 referred to Lonchocephalidae **fam. n.** p. 197, HUPÉ **28.**

Lonchocephalus — distinction from *Welleraspis* considered subject to some doubt, *L. waddlei* Tasch and *L. swartzi* T. considered congeneric if not conspecific with *W. jerseyensis* (Weller) p. 279, *L.* sp. undet. p. 281, WILSON [Z.R. **90** 11 title **119**].

Lonchocephalus considered distinct from *Welleraspis*, *L. swartzi* Tasch and *L. waddlei* T. measurements of type specimens given, considered not congeneric with *W. jerseyensis* (Weller) p. 746 text-figs. 2 A, B (line drawings), TASCH **75.**

Lonchocephalus peregrinus Wallerius 1930 referred provisionally to *Parasolenopleura* **gen. n.** p. 30, WESTERGÅRD **79.**

Lonchodomas carinatus **sp. n.** p. 17 pl. vii figs. 12–17, 19–23, *L. punctatus* **sp. n.** p. 18 pl. iv figs. 20–21 Ordovician (Middle) U.S.A. (Va and Te), *L. politus* Raymond *partim* [called n. sp. on pl. expl. and table 1] p. 18 pl. vi figs. 1–2, 5–10, *L. sublaevis* R. p. 19, COOPER Mem. geol. Soc. Amer. No. 55 1953.

Lonchodomas drummuckensis reconstruction text-fig. 92 (2), HUPÉ **28.**

Lonchodomas aff. *hastatus* Ruedemann recorded from Wicklow, Ireland p. 433, LAMONT **45.**

Lonchodomas pennatus (La Touche) p. 242, WHITTARD *in* WHITTARD ET AL. **80.**

Lonchodomas rostratus text-fig. 74 (3), HOLTEDAHL **25.**

Lonchodomas rostratus (Sars) p. 416, JAANUSSON **32.**

Lonchodomas rostratus (Sars) [Jaanusson reported as suggesting reference to *L. jugatus* Ang.] p. 131, LINDSTRÖM **46.**

Lonchodomas rostratus p. 73, *L.* sp. p. 68, STØRMER **73.**

Lonchodomas sp. p. 102, JAANUSSON **31.**

Lonchodomas sp. p. 210, *Tretaspis reticulata* Ruedemann 1901 *partim* [pygidium pl. 3 fig. 11] suggested reference to *L.* p. 211, STÄUBLE **71.**

Longianda Hupé [nom. nud.] referred to Saukiandidae **fam. n.** p. 179, HUPÉ **28.**

Longianda **gen. n.** [nom. nud. 1952] [Saukiandidae] pp. 152, 201 for type *L. termieri* nov. spec. [? recte Neltner & Poctey 1949 restr.] revised assignment of *Callavia t.* N. & P. *partim* [pl. 1 figs. 2–4 refigured] p. 202 pl. viii figs. 1–2, 8, pl. ix fig. 1, text-fig. 36 (20) line drawing, *L. termieri* var. *minor* **var. n.** [nom. nud. 1952] p. 202 Cambrian (Lower) Morocco (Anti-Atlas), HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Lopnorites Troedsson 1937 retained provisionally in Hysteroleninae, but may belong to Olenidae (Papyriaspinae) p. 204, HUPÉ **28.**

Lorenzella Kobayashi 1935 referred to Utiadae p. 200, *Eurostina* may be ancestral p. 192 footnote, HUPÉ **28.**

Lotagnostus ? mystacinus **sp. n.** Cambrian (Upper) Sweden (Nerike) p. 73 text-fig. 1, TJERNVIK Geol. Fören. Stockh. Förh. **75** 1 1953.

Luaspis Hupé [nom. nud.] referred to Palaeolenidae (Palaeoleninae) **fam. et subfam. n.** p. 181, HUPÉ **28.**

Luaspis **gen. n.** [Palaeolenidae (Palaeoleninae)] for type *Pseudoptychoparia reedi* Lu 1941 p. 158 Cambrian (Lower) China, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Lusatiops R. & E. Richter 1941 referred to Protoleninae **subfam. n.** p. 180, HUPÉ **28.**

Lusatiops R. & E. Richter 1941 emend. referred to Protoleninae, *L. ribotanus* R. & E. R. restr. [pl. 1 figs. 1–2] referred tentatively to *Pseudolenus* **gen. n.** p. 229, *partim* [pl. 1 fig. 4] to *Termierella* (*Brevitermierella*) *brevifrons* **sp. n.** p. 216, *partim* [pl. 1 fig. 5] to *T.* (*Jalonella*) *celtiberica* **sp. n.** pp. 166, 217 ; *Protolenus coreanicus* Saito and *Olenopsis thorali* Cobbold [quæ vide] excluded from *L.* ; *L. lusaticus* of G. & H. Termier 1950 referred *partim* [pl. 192 figs. 10, 11, pl. 188 figs. 5, 8, 11] to ? *Myopsolenus magnus* **sp. n.**, *partim* [pl. 188 fig. 4] to ? *Hamatolenus acutus* **sp. n.** p. 284, HUPÉ **29.**

Lutesvillia Cullison 1944 discussed and referred to Bathyuridae p. 662, WHITTINGTON **81.**

Lyralichas cf. *bronnikovi* Web. p. 1044, KOROLEVA **42.**

Lyriaspis Whitehouse 1939 referred to Elrathininae **subfam. n.** p. 192, HUPÉ **28.**

Macelloura Resser 1935—*Tatonaspis* Kobayashi 1935 and *Yukonaspis* K. 1936 subjective synonyms, *M. transversa* Resser 1942 assignment to *M.* not accepted p. 887, LOCHMAN **48.**

Macropyge Stubblefield 1927 may belong near to *Xenostegium* and *Symphysurina* in Ogygiocarinae p. 222 footnote, HUPÉ **28.**

Macropyge Stubblefield 1927 discussed p. 55, *M. chermi* S. pl. iv fig. 2 (line drawing), KOBAYASHI **40.**

Macropyge chermi Stubblefield p. 236, STUBBLEFIELD *in* WHITTARD ET AL. **80.**

Macropyge gladiator Ross—cranidium tentatively assigned by Ross is similar to that of *Asaphellus ? venta* **sp. n.** p. 136, HINTZE **24.**

Macropyge ? G. & H. Termier 1950 referred to *Gigantopygus* **gen. n.** p. 181, HUPÉ **29.**

Macropyginae Kobayashi 1937 referred as a subfamily to Kainellidae Ulrich & Resser 1930 and considered to include *Macropyge* Stubblefield 1927 and *Lichapyge* Callaway 1877 p. 55, KOBAYASHI **40.**

Maladia Walcott 1924 referred to Elviniidae (Maladiinae) **subfam. n.** p. 206, HUPÉ **28.**

Maladiinae **subfam. n.** [Elviniidae] for *Parabolinoides*, *Orygmaspis*, *Maladia*, *Tostonia*, ? *Nericia* and ? *Ullaspis* p. 206, HUPÉ Traité de Paléontologie **3** 1953.

Maladiodella [recte *Maladioidella*] Resser & Endo 1937 referred to Elviniinae p. 206, Hupé **28.**

Maladioides [Kobayashi] of which *Taishania* probably a synonym referred to Elviniidae p. 895, Lochman **49.**

Mallagnostidae Howell 1935 a synonym of Condylopygidae Raymond 1913 p. 172, Hupé **28.**

Manchuriella Resser & Endo 1937 referred to Anomocarellidae **fam. n.** p. 189, Hupé **28.**

Mansuyella Resser & Endo 1937 referred to Ceratopygidae (Mansuyellinae) **subfam. n.** p. 204, Hupé **28.**

Mansuyellinae **subfam. n.** [Ceratopygidae] for *Kogenium*, *Mansuyella* and *Kaolishaniella* p. 204, Hupé Traité de Paléontologie **3** 1953.

Mansuyia Sun 1924 referred to Leiostegiidae (Mansuyinae) **subfam. n.** p. 208, Hupé **28.**

Mansuyinae **subfam. n.** [Leiostegiidae] for *Mansuyia* Sun 1924, *Paramansuyella*, *Chosenia* and ? *Prochuangia* p. 208, Hupé Traité de Paléontologie **3** 1953.

Mapania Resser & Endo 1937 referred tentatively to Anomocarellidae **fam. n.** p. 189, Hupé **28.**

Mareda Kobayashi 1942 tentatively referred to Anomocaridae p. 212, Hupé **28.**

Marjumiidae Kobayashi 1935 referred to Asaphiscoidae **superfam. n.** p. 204, Hupé **28.**

Marrolithoides simplex Williams, *M. s. elevata* W. p. 190, *M.* aff. *s. e.* p. 193, *M. anomalis* W. p. 190, Williams **84.**

Marrolithus recorded p. 232, Whittard *in* Whittard et al. **80.**

Marrolithus primus Williams p. 184, *M. inflatus incipiens* W. p. 185 *ff.*, *M. i. maturus* W. p. 190, *M. favus* (Salter), *M. f. moderatus* W. p. 190, *M.* intermediate between *M. f.* & *M. i. m.* p. 194, Williams **84.**

Marsaisia Hupé [nom. nud.] referred to Neoredlichiidae **fam. n.** p. 177, Hupé **28.**

Marsaisia **gen. n.** [Neoredlichiidae] p. 149 for type *M. robauxi* **sp. n.** [nom. nud. 1952] p. 170 pl. v figs. 16, ? 23, pl. vi ?fig. 6 [*M.* cf. *r.* on pl. expl.], text-fig. 38 (4), *M. acuminata* **sp. n.** p. 169 pl. v fig 17 text-fig. 38 (2), *M. parvifrons* **sp. n.** p. 170 text-fig. 38 (3) Cambrian (Lower) Morocco (Anti-Atlas), *M.* sp. p. 54, Hupé Notes Serv. Min. Maroc No. 103 1953.

Matthewlenus Hupé [nom. nud.] referred to Protoleninae **subfam. n.** p. 180, Hupé **28.**

Matthewlenus **gen. n.** [Protolenidae (Protoleninae)] for type *Protolenus articephalus* Matthew 1895 pp. 156, 219 text-fig. 48 (3) line drawing, Hupé Notes Serv. Min. Maroc No. 103 1953.

Maustonia Raasch 1939 provisionally considered valid although its definition does not comply with Art. 25 para. c. of International Rules, description and comparison, *M. hedra* (Kurtz) revised assignation of *Parabolinoides hedrus* K. 1952 *partim* (pl. 32 fig. 2a) p. 563, *M. nasuta* (Hall) holotype refigured and *Parabolinoides parallela* Nelson 1951 included in synonymy p. 563 pl. lx figs. 2–4; *Maustonia* Lochman 1950 (*non* Raasch) strictly valid but diagnosis considered to fit *Parabolinoides* Frederickson 1949 to which *M. cordillerensis* L. is referred p. 563, Berg **5.**

Mcnairia Deiss 1939 referred tentatively to Anomocarellidae **fam. n.** p. 189, Hupé **28.**

Megagraulos Kobayashi 1935 referred tentatively to Emmrichellidae p. 200, Hupé **28.**

Megalaspides Brögger 1886 see Asaphinae.

Megalaspidiella sp. [hypostome] p. 634 pl. lxii fig. 18, Ross **59.**

Megalaspis Angelin 1852 referred to Ogygiocarinae [quod vide] p. 223, *M. acuticauda* A. text-fig. 88, Hupé **28.**

? Megalaspis empozadensis [recte *emposadensis*] Rusconi 1953 type of *Cuyanaspis* **gen. n.** p. 6, Rusconi **62.**

Megalaspis formosa Törnquist 1884 type of *Pseudomegalaspis* **gen. n.** p. 451 to which also *M. patagiata* T. 1884 [lectotype selected] is referred p. 456, JAANUSSON **32.**

Megalaspis grandis Sars 1835 p. 55, *M.* cf. *g.* p. 102, *M. gigas* p. 70, *M. centaurus* (Dalman 1826) type material considered possibly too little known for sp. to be recognised p. **117** footnote, STØRMER **73.**

Megalaspis aff. *heroides* Brögger p. 74, TJERNVIK **77.**

Megalaspis lasherensis **sp. n.** p. 6 text-fig. 6, ? *M. emposadensis* **sp. n.** p. 5 text-fig. 5 Ordovician (Lower) Argentina (Mendoza), RUSCONI Bol. paleont. B. Aires No. 25 1953.

Megalaspis limbata text-figs. 73 (8–9), *M. patagiata* text-fig. 73 (21), HOLTEDAHL **25.**

Mendodiscus tuberculatus Rusc. p. **7,** RUSCONI **60.**

Mendolaspis solitariensis **sp. n.** Cambrian (Middle) Argentina p. 3 text-fig. 7, RUSCONI Bol. paleont. B. Aires No. 28 1953.

Menocephalinae **subfam. n.** [Solenopleuridae] for *Menocephalites, Liaotungia* and *Menocephalus* p. 195, HUPÉ Traité de Paléontologie **3** 1953.

Menocephalites Kobayashi 1937 referred to Menocephalinae **subfam. n.** p. 195, HUPÉ **28.**

Menocephalus Owen 1852 referred to Solenopleuridae (Menocephalinae) **subfam. n.** p. 195, HUPÉ **28.**

Menodiscus **gen. n.** error pro *Mendodiscus* **gen. n.** Rusconi 1950, Z.R. **88** for 1951 11 1953 p. 24.

Menomonia Walcott 1916—*Millardia* W. 1916 a synonym p. 210, HUPÉ **28.**

Menomoniidae Walcott 1916 referred to Olenoidae **superfam. n.** and taken to include *Menomonia, Dresbachia* and ? *Bridgeia* p. 210, HUPÉ **28.**

Menomoniidae — Shaw's enlargement to include the opisthoparian Nepeidae [quod vide] rejected, considered to include *Menomonia* Walcott 1916, *Densonella* Shaw 1952, *Dresbachia* W. 1916 and *Bolaspidella* Resser 1937, facial suture stated to be gonatoparian (not proparian) p. 892, *Knechtelia* and *Bridgeia* provisionally excluded from family p. 893, LOCHMAN **49.**

Menoparia Ross 1951 referred to Remopleurididae p. 210, HUPÉ **28.**

Menoparia Ross 1951 referred to Kainellidae (Richardsonellinae), *M. genalunata* R. 1951 p. 50 pl. iv fig. 5 (line drawing), KOBAYASHI **40.**

Menoparia genalunata Ross listed pp. 12, 14, HINTZE **24.**

Menoparia genalunata Ross additional material figured, hypostome tentatively assigned p. 634 pl. lxii figs. 3, 4, 6, 7, 9–11, 13–17, 19, 20, *M. lunalata* **sp. n.** Ordovician (Lower) U.S.A. (Idaho) p. 635 pl. lxii figs. 22–24, Ross J. Paleont. **27** 5 1953.

Mesetaia Hupé [nom. nud.] referred to Palaeolenidae (Kingaspidinae) **fam. et subfam. n.** p. 181, HUPÉ **28.**

Mesetaia **gen. n.** [Palaeolenidae (Kingaspidinae)] p. 158 for type *Hartshillia marocana* Gigout 1951 Cambrian (Middle) Morocco, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Mesocrepicephalus Kobayashi 1935 referred to Crepicephalinae **subfam. n.** p. 202, HUPÉ **28.**

Mesocrepicephalus Kobayashi 1935 a subjective synonym of *Crepicephalina* Resser & Endo 1935 p. 887, LOCHMAN **48.**

Mesodema Whitehouse 1939 referred to Redlichiinae **subfam. n.** p. 177, HUPÉ **28.**

Mesonacis bondoni Neltner 1938 nom. nud. referred to ? *Fallotaspis typica* **sp. n.** p. 284, HUPÉ **29.**

Metadoxididae Whitehouse 1939 considered a separate family and referred to Redlichiidea p. 179, HUPÉ **28.**

Metaharpes amiboueana [? recte *amibouéi* Lamont 1948] p. 27 abstract, LAMONT **44.**

Metalichas Reed 1902 a synonym of *Platylichas* Gürich 1901 p. 228, HUPÉ **28.**

Metapliomerops Kobayashi 1934 referred to Protopliomeropsinae **subfam. n.** p. 237, HUPÉ **28.**

Metisaspis Rasetti 1946 referred to Nepeidae p. 192, HUPÉ **28.**

Metisaspis Rasetti 1946 referred to Llanoaspinae p. 891, LOCHMAN **49.**

Metisia Resser 1937 referred to Solenopariidae **fam. n.** p. 195, HUPÉ **28.**

Métisia Resser 1937 a subjective synonym of *Armonia* Walcott 1925 p. 887, LOCHMAN **48.**

Metopolichas Gürich 1901 a synonym of *Lichas* Dalman 1827 p. 227, HUPÉ **28.**

Mexicaspinae **subfam. n.** [Dolichometopidae] for *Mexicaspis* Lochman 1948 and *Fieldaspis* Rasetti 1951 p. 183, HUPÉ Traité de Paléontologie **3** 1953.

Mexicaspis Lochman 1948 referred to Dolichometopidae (Mexicaspinae) **subfam. n.** p. 183, HUPÉ **28.**

Mexicella Lochman 1948 referred to Agraulidae p. 187, HUPÉ **28.**

Micmacca Matthew 1895 referred to Ellipsocephalinae p. 180, HUPÉ **28.**

Micmacca Matthew 1895 referred to Ellipsocephalinae, discussed with diagnosis, subdivided into *M.* (*Micmacca*) Matthew for *M. matthevi* and *M. recurva* M. and *M.* (*M.*) *coloi* **sp. n.** Cambrian (Lower) Morocco (Anti-Atlas) for *M.* cf. *matthewi* of Hupé 1952 p. 250 text-fig. 59 (1) line drawing, *M.* cf. *c.* p. 61; *M.* (*Myopsomicmacca*) **subgen. n.** p. 248 for type *M. protolenoides* Cobbold Britain (Shropshire) and including *M. comleyensis* C., *M. ellipsocephaloides* C. [*M.* cf. *e.* from Morocco p. 71], *M. transversa* Lu and *M. angimargo* M.; *M.* (*Acanthomicmacca*) **subgen. n.** p. 248 for type *M. walcotti* M. New Brunswick and including *M. van-ingeni* M. and probably *M.* (*?A.*) *neltneri* **sp. n.** for *Strenuella* cf. *spinosa* of Neltner 1938 *partim* [pl. 13 figs. 16–17] Morocco (Anti-Atlas) p. 250 text-fig. 59 (10) line drawing; *M.* (*Conomicmacca*) **subgen. n.** p. 248 for type *M. ? plana* M. New Brunswick and also *M. schwarzbachi* R. & E. Richter; *M. ellipsocephaloides* var. *strenuelloides* Cobbold 1910 referred to *Comluella* **gen. n.** text-fig. 56 (15), *M. elongata* Lu 1941 type of *Hoffetella* **gen. n.** p. 158, *M.* [*ellipsocephaloides*] of Neltner & Poctey 1949 referred to *? Antatlasia* **gen. n.**, *M. e.* of G. & H. Termier 1950 *partim* [pl. 191 fig. 13] to *? Kingaspis armatus* **sp. n.** and *partim* [fig. 14] to *? Strenuella howelli* **sp. n.** p. 284, *M. ? parvula* Cobbold 1910 probably conspecific with *Gigoutella atlasensis* **sp. n.** p. 76, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Micmacca sp. p. 1061, DRESNAY & HUPÉ **14.**

Micragnostidae Howell 1935 taken to include *Micragnostus*, *Anglagnostus*, *Girvanagnostus* and *Oedorhachis* p. 173, HUPÉ **28.**

Microdiscus dawsoni see *Dawsonia.*

Microdiscus lobatus of Gigout 1937 from Morocco referred to *Calodiscus lakei* Rasetti p. 74, HUPÉ **29.**

Millardia Walcott 1916 a synonym of *Menomonia* W. 1916 p. 210, HUPÉ **28.**

Millardia avitas Walcott p. 281, WILSON [Z.R. **90** 11 title **119**].

Miomera Jaekel 1909 accepted as an order for Eodiscoidae and Agnostoidae p. 168, HUPÉ **28.**

Miquelina Thoral 1935 a synonym of *Taihungshania* Sun 1931 p. 221, HUPÉ **28.**

Missisquoia Shaw 1951 referred to Missisquoiidae **fam. n.** p. 205, HUPÉ **28.**

Missisquoia typicalis Shaw 1951 p. 139, SHAW **65.**

Missisquoiidae **fam. n.** [Olenoidae] to include *Missisquoia* Shaw 1951, *? Inouyina*, *? Chakasskia* and *? Kaolishania* p. 205, HUPÉ Traité de Paléontologie **3** 1953.

Monocheilus Resser 1937 referred to Eurekiidae **fam. n.** p. 208, HUPÉ **28.**

Monocheilus recorded p. 6, HINTZE **24.**

Myinda Stubblefield 1926 [sic] see Myindidae **fam. n.**

Myindidae **fam. n.** [Trinucleoidae] for *Myinda* Stubblefield 1926 [sic] p. 242, HUPÉ Traité de Paléontologie **3** 1953.

Myopsoleninae Hupé 1952 [recte 1953] subfam. of Protolenidae for *Myopsolenus*, *Collyrolenus* and *Thoralaspis* Hupé [nomina nuda] p. 180, Hupé **28.**

Myopsoleninae **subfam. n.** [Protolenidae] pp. 156, 220 for *Myopsolenus*, *Collyrolenus*, *Thoralaspis* **genn. n.** and ? *Strettonia* Cobbold 1931, Hupé Notes Serv. Min. Maroc No. 103 1953.

Myopsolenus Hupé [nom. nud.] referred to Protolenidae (Myopsoleninae) p. 180, Hupé **28.**

Myopsolenus **gen. n.** [Protolenidae (Myopsoleninae)] pp. 156 [misspelt *Myopselenus*], 243 for type *M. magnus* **sp. n.** [nom. nud. 1952] including *Protolenus elegans* var. *marocana* of Neltner & Poctey 1949 and *P.* cf. *latouchei* of G. & H. Termier 1950 *partim* [pl. 188 fig. 8] p. 243 pl. x figs. 11, 14, 15, text-fig. 48 (10) Cambrian (Lower) Morocco (Anti-Atlas), Hupé Notes Serv. Min. Maroc No. 103 1953.

Myopsolenus magnus p. 1170, Choubert & Hupé **11.**

Myopsomicmacca **subgen. n.** of *Micmacca* [quod vide].

Neltneria Hupé [nom. nud.] referred to Neltneriinae p. 176, Hupé **28.**

Neltneria **gen. n.** [nom. nud. 1952] [Olenellidae (Neltneriinae)] p. 133 for type *Wanneria jaqueti* [recte *jacqueti*] Neltner & Poctey 1949 restr. [pl. 6 fig. 5 holotype refigured] p. 134 pl. iii fig. 2, pl. iv figs. 1, 6, text-figs. 25 (reconstruction), 26, *N.* cf. *j.* and *N.* sp. p. 60, *N. termieri* **sp. n.** p. 134 pl. iv fig. 7 Cambrian (Lower) Morocco (Anti-Atlas), Hupé Notes Serv. Min. Maroc No. 103 1953.

Neltneriinae Hupé 1952 [recte 1953] subfam. of Olenellidae for *Neltneria* H. [nom. nud.] p. 176, Hupé **28.**

Neltneriinae **subfam. n.** [Olenellidae] for *Neltneria* **gen. n.** p. 125. Hupé Notes Serv. Min. Maroc No, 103 1953.

Neoasaphus **subgen. n.** of *Asaphus* [quod vide].

Neochilonorria **gen. n.** [no family assigned], *N. coronillensis* **sp. n.** Cambrian (Upper) Argentina p. 5 text-fig. 9, Rusconi Bol. paleont. B. Aires No. 27 1953.

Neochilonorria excavata **sp. n.** Cambrian (Upper) Argentina p. 1 [unillustr.], Rusconi Bol. paleont. B. Aires No. 28 1953.

Neogriffithides Toumansky 1935 referred to Griffithidinae **subfam. n.** p. 219, Hupé **28.**

Neolenus Matthew 1899 a synonym of *Olenoides* Meek 1877 p. 186, Hupé **28.**

Neoproetus Tesh [recte Tesch] 1923 referred to Griffithidinae **subfam. n.** p. 219, Hupé **28.**

Neoredlichia Saito 1936 referred to Neoredlichiidae **fam. n.** p. 177, Hupé **28.**

Neoredlichia Saito 1936 emend. discussed p. 167, *N. latigena* **sp. n.** p. 168 pl. v fig. 20 text-fig. 38 (1) line drawing Cambrian (Lower) Morocco (Anti-Atlas), Hupé Notes Serv. Min. Maroc No. 103 1953.

Neoredlichiidae Hupé 1952 [recte **fam. n.**] to include *Neoredlichia* Saito 1936, *Resserops* and *Perrector* R. & E. Richter 1940, *Despujolsia* [Neltner &] Poctey 1949, *Marsaisia*, *Gigantopygus* and *Ouijjania* [nomina nuda], and tentatively *Redlichops* R. & E. R. 1941 p. 177, Hupé Traité de Paléontologie **3** 1953.

Neoredlichiidae nov. fam. [Hupé 1953] taken to include *Neoredlichia* Saito, *Resserops* and *Perrector* R. & E. Richter, *Despujolsia* Neltner & Poctey, *Marsaisia*, *Pareops*, *Gigantopygus* and *Clariondia* **genn. n.** p. 149, Hupé **29.**

Nepeidae Whitehouse 1939 emend. referred to Ptychoparioidae and taken to include *Nepea*, *Eurostina*, *Periommella*, *Periomma*, *Metisaspis*, *Bolaspis* and *Protemnites* p. 192, Hupé **28.**

Nepeidae — Shaw's inclusion with Menomoniidae rejected, considered to include *Bolaspis*, *Acrocephalops*, *Eldoradia* and *Nepea* p. 892, Lochman **49.**

Nericia Wertergård [recte Westergård] 1948 referred tentatively to Maladiinae **subfam. n.** p. 206, HUPÉ **28.**

Nericia quinquedentata Wgård, *N. septemdentata* W. listed p. 38, WESTERGÅRD **79.**

Nevadella Raw 1936 referred to Nevadiinae **subfam. n.** p. 175, HUPÉ **28.**

Nevadia Walcott 1910 referred to Nevadiinae **subfam. n.** p. 175, HUPÉ **28.**

Nevadia weeksi (after Walcott) text-fig. 13.35 F, SHROCK & TWENHOFEL **66.**

Nevadiinae Hupé 1952 [recte **subfam. n.**] [Olenellidae] for *Nevadia* Walcott 1910 and *Nevadella* Raw 1936 p. 175, HUPÉ Traité de Paléontologie 3 1953.

Nieszkowskia Schmidt 1881 discussed, *N.* ? sp. p. 193 pl. xxviii figs. 6–7, HINTZE **24.**

Nileidae Angelin 1854 referred to Asaphoidae and divided into Nileinae and Parabarrandiinae p. 221, HUPÉ **28.**

Nileinae (Angelin 1854) taken to include *Nileus*, *Symphysurus*, ? *Barrandia*, *Hemibarrandia*, ? *Benthamaspis*, *Tatonaspis* and ? *Prosymphysurus* p. 221, HUPÉ **28.**

Nileus armadillo Dalm. p. 416, JAANUSSON **32.**

Nileus armadillo p. 58, STØRMER **73.**

Niobe Angelin 1852 see Ogygiocarinae, hypostomes of *N. insignis* Linnarsson, *N. emarginula* Angelin and *N. frontalis* Dalman showing development of forking text-figs. 129 b, c, d, HUPÉ **28.**

Niobe ? feitleri Holliday 1942 probably a sp. of *Bathyurellus* p. 140, HINTZE **24.**

Niobe frontalis p. 102, *N.* cf. *frontalis* p. 70, STØRMER **73.**

Niobe (*Niobella*) *homfrayi* Salter p. 234, POCOCK *in* WHITTARD ET AL. **80.**

Niobe insignis text-figs. 70 (15, 16), HOLTEDAHL **25.**

Niobe lata Angelin 1851 discussed and considered not identical with *Asaphus ingens* Barrande, generic reference uncertain p. 445, JAANUSSON **32.**

Niobella Reed 1931 see Ogygiocarinae, *N. aurora* Westergård hypostome text-fig. 129 a (line drawing), HUPÉ **28.**

Niobella selwyni (Salter) p. 240, WHITTARD *in* WHITTARD ET AL. **80.**

Nixonella Lochman 1944 referred to Genevievellidae **fam. n.** p. 210, HUPÉ **28.**

Norwoodella Resser 1938 referred to Norwoodiinae p. 201, HUPÉ **28.**

Norwoodia Walcott 1916—*Whitfieldina* Resser 1937 a synonym, *N. tenera* W. text-fig. 123 (5), HUPÉ **28.**

Norwoodiidae Walcott 1916 referred to Utioidae **superfam. n.** (but may belong to Asaphiscoidae), and divided into Norwoodiinae and Levisapidae [sic] **subfam. n.** [quod vide] p. 201, HUPÉ **28.**

Norwoodiidae—Shaw's 1951 division into Norwoodiinae and Holcacephalinae criticized p. 892, LOCHMAN **49.**

Norwoodiinae subfam. nov. [Shaw 1951] for *Norwoodia*, *Paranorwoodia* and *Norwoodella* p. 201, HUPÉ **28.**

Notasaphus Gregory 1903 a synonym of *Kootenia* Walcott 1908 p. 186, HUPÉ **28.**

Notocoryphe asperoense **sp. n.** Cambrian (Middle) Argentina (Mendoza) p. 7 text-fig. 9, RUSCONI Bol. paleont. B. Aires No. 25 1953.

Novákaspis Přibyl 1946 referred to Otarioninae p. 199, *N. barrandei* (Hawle & Corda) text-fig. 122 (11), HUPÉ **28.**

Odontocephalus humboldtensis **sp. n.** Devonian (Middle) U.S.A. (New York) p. 92 pl. xxviii figs. 1–4, pl. xxix figs. 1, 3–4, *O. aegeria* Hall pl. xxix fig. 2, *O. selenurus* holotype mentioned p. 92, SARGENT Bull. Buffalo Soc. nat. Sci. **21** 2 1953.

Odontochile comparable spp. in L. Devonian of Australasia and N. Africa p. 91, GILL **21.**

Odontopleura ovata Emmrich text-fig. 134, HUPÉ **28.**

Odontopleura sp. p. 34 pl. x fig. 17, FISHER **18.**

Odontopleurid (undescribed) p. 240, WHITTARD *in* WHITTARD ET AL. **80.**

Odontopleuridae Burmeister 1843 emend. Prantl & Přibyl 1949 classified following P. & P. into Odontopleurinae and Acantholominae p. 230, HUPÉ **28.**

Odontopleuroidae Prantl & Přibyl 1949 emend. [sic] accepted as superfamily for Odontopleuridae, Ceratocephalidae and Selenopeltidae p. 230; *Koněprusia* and *Orphanaspis* P. & P. 1949 considered Odontopleuroidae incertae sedis p. 231, HUPÉ **28.**

Oedorhachis [misspelt *Eodorhachis*] Resser 1938 referred to Micragnostidae p. 173, HUPÉ **28.**

Ogmasaphus **gen. n.** [Asaphidae] p. 426 for type *Asaphus praetextus* Törnquist 1884 [quod vide] Ordovician (Middle) Sweden (Dalarna) lectotype chosen and figured p. 427 pl. v figs. 1–8 text-figs. 3 (4), 5 (4), 11, *O.* cf. *p.* from Västergötland p. 432 pl. vi figs. 1–2, *O. costatus* **sp. n.** Ordovician (M.) Sweden (Öland) with synonym *Ptychopyge* n. sp. Tullberg 1882 p. 433 pl. vi figs. 3–9, pl. vii figs. 1–4, text-figs. 3 (3), 5 (5), 12, JAANUSSON Ark. Min. 1 14 1953.

Ogygia sp. p. 179 *ff.*, WILLIAMS **84.**

Ogyginus Raymond 1912 referred to Ogygiocarinae [quod vide] p. 223, *O. corndensis* (Murchison) text-fig. 130 (1), HUPÉ **28.**

Ogyginus corndensis (Murchison) p. 241, WHITTARD *in* WHITTARD ET AL. **80.**

Ogygiocarinae Raymond 1913 grouped into (*A*) *Xenostegium*, *Symphysurina*; (*B*) (a) *Platypeltoides*; (b) *Niobe*, *Niobella*, *Hemigyraspis*, *Bellefontia*, ? *Barrandia*, *Homoglossa*, *Homalopteon*, *Ogygiocaris*; (c) *Megalaspis*, *Ogygites*, *Ogyginus*, *Asaphellus* p. 221, HUPÉ **28.**

Ogygiocaris Angelin 1878 see Ogygiocarinae.

Ogygiocaris buchi p. 190, WILLIAMS **84.**

Ogygiocaris dilatata text-fig. 73 (24), HOLTEDAHL **25.**

Ogygiocaris dilatata forma typica p. 79 pl. i, *O.* cf. *d.* p. 102, *O. d. sarsi* p. 58 pl. ii, *O.* sp. p. 56, STØRMER **73.**

Ogygites Tromelin & Lebesconte 1875 see Ogygiocarinae.

Ogygitoides Kobayashi 1934 see Asaphinae.

Ogygitoides Kobayashi 1934 discussed and considered not closely related to *Pseudobasilicus* p. 444, JAANUSSON **32.**

Ogygopsidae Rasetti 1951 accepted for *Ogygopsis* and *Taxioura* p. 185, HUPÉ **28.**

Oidalagnostus Westergård 1946 referred to Agnostidae [s. str.] p. 172, HUPÉ **28.**

Olenellid trilobites recorded from Peary Land p. 8 footnote, J. C. TROELSEN *in* ADAMS & COWIE **1.**

Olenellidae Vogdes 1893 classified into Nevadiinae, Olenellinae, Elliptocephalinae, Wanneriinae, Holmiinae, Olenelloidinae **subfamm. n.**, Fallotaspidinae and Neltneriinae p. 175, HUPÉ **28.**

Olenellidae Vogdes 1893 referred to Olenelloidae, and classified into Fallotaspidinae and Neltneriinae **subfamm. n.**, Nevadiinae, Olenellinae, Elliptocephalinae, Wanneriinae and Holmiinae p. 124, HUPÉ **29.**

Olenellinae Hupé 1952 [recte **subfam. n.**] [Olenellidae] for *Olenellus* Hall 1881, *Fremontia* Raw 1936 and *Paedeumias* Walcott 1910 p. 175, HUPÉ Traité de Paléontologie 3 1953.

Olenelloidae Vogdes 1893 emend. classified into Olenellidae, Daguinaspidae and possibly Lancastriidae p. 174, HUPÉ **28.**

Olenelloidae (Poulsen 1927) discussed and taken to include Olenellidae Vogdes 1893 and Daguinaspidae **fam. n.** p. 116, HUPÉ **29.**

Olenelloides Peach 1894 referred to Olenelloidinae **subfam. n.** p. 176, HUPÉ **28.**

Olenelloidinae Hupé 1952 [recte **subfam. n.**] [Olenellidae] for *Olenelloides* Peach 1894 p. 176, Hupé Traité de Paléontologie 3 1953.

Olenellus Hall 1881 referred to Olenellinae **subfam. n.** p. 175, *O. thompsoni* (H.) partial reconstruction text-fig. 116, Hupé **28.**

Olenellus bondoni Neltner & Poctey 1949 discussed and referred to various spp. of *Fallotaspis* **gen. n.** p. 51 : pl. 3 fig. 5 to *F. longa* ; pl. 3 fig. 3, pl. 4 figs. 2, 3, 4, 6, pl. 5 figs. 3, 5 to *F. longispina* ; pl. 3 fig. 4, pl. 4 fig. 1 to *F. typica* [see p. 284 also], Hupé **29.**

Olenellus thompsoni (after Walcott) text-figs. 13.31 F, G, 13.35 D, *O. vermontanus* text-fig. 13.35 B, Shrock & Twenhofel **66.**

Olenidae Burmeister 1843 referred to Olenoidae **superfam. n.** and classified into Papyriaspinae, Oleninae, Leptoplastinae, Triarthrinae, Jujuyaspinae, and Aulacopleurinae p. 206, Hupé **28.**

Oleninae Kobayashi 1935 emend. taken to include *Olenus*, *Parabolinella*, *Parabolina*, *Plicatolina* and *Parabolinopsis* p. 207, Hupé **28.**

Olenoidae **superfam. n.** to include Damesellidae, Missisquoiidae, Elviniidae, Richardsonellidae, Olenidae, Lloydidae, Eurekiidae, Illaenuridae, Leiostegiidae, ? Genevievellidae, Menomoniidae and Remopleurididae p. 204, Hupé Traité de Paléontologie 3 1953.

Olenoides Meek 1877 referred to Holteriinae **subfam. n.** p. 186, *Neolenus* Matthew 1899 a synonym, Hupé **28.**

Olenoides diamantensis **sp. n.** Cambrian (Upper) Argentina p. 4 text-fig. 8, Rusconi Bol. paleont. B. Aires No. 27 1953.

Olenoides sp. nova [undescr.] p. 1089, Rezvoť **57.**

Olenopsis thorali Cobbold 1931 type of *Thoralaspis* **gen. n.** p. 220, *O. zoppii* of Neltner 1938 unidentified p. 286, Hupé **29.**

Olenus truncatus Brünnich text-fig. 125 (1), Hupé **28.**

Olenus truncatus text-figs. 69 (18, 19), Holtedahl **25.**

Onchocephalus Resser 1937 referred to Antagmidae **fam. n.** p. 192, Hupé **28.**

Onchometopus see Asaphinae.

Onchometopus see *Asaphus*.

Onchonotopsis Rasetti 1946 referred to Solenopariidae **fam. n.** p. 195, *O. pergibba* R. text-fig. 122 (6), Hupé **28.**

Onchonotus Raymond 1924 referred to Punctulariidae p. 199, Hupé **28.**

Onchonotus richardsoni (Walcott) 1913, *O.* sp. p. 140, Shaw **65.**

Onchopeltis Rasetti 1944 referred to Solenopleurinae **subfam. n.**, considered to lead on to Talbotinidae p. 195, Hupé **28.**

Onnia ornata (Sternberg) text-fig. 140 (1), Hupé **28.**

Onnia superba (Bancroft) p. 242, Whittard *in* Whittard et al. **80.**

Orphanaspis Prantl & Přibyl 1949 considered Odontopleuroidae incertae sedis p. 231, Hupé **28.**

Orria Walcott 1916 referred to Dolichometopidae (Orriinae) **subfam. n.** p. 185, Hupé **28.**

Orriella Rasetti 1948 referred to Orriinae **subfam. n.** p. 185, Hupé **28.**

Orriinae **subfam. n.** [Dolichometopidae] for *Orria* Walcott 1916 and *Orriella* Rasetti 1948 p. 185, Hupé Traité de Paléontologie 3 1953.

Oryctocara Walcott 1908 referred to Oryctocephalidae (Oryctocarinae) **subfam. n.** p. 186, Hupé **28.**

Oryctocarinae **subfam. n.** [Oryctocephalidae] for *Oryctocara* Walcott 1908 p. 186, Hupé Traité de Paléontologie 3 1953.

Oryctocephalidae Raymond 1913 classified into Oryctocephalinae and Oryctocarinae **subfamm. n.** and ? Tonkinellinae p. 186, Hupé **28.**

Oryctocephalina Lermontova 1940 referred to Oryctocephalinae **subfam. n.** p. 186, Hupé **28.**

Oryctocephalinae **subfam. n.** [Oryctocephalidae] for *Oryctocephalus*, *Oryctocephalina* and *Oryctocephalites* p. 186, Hupé Traité de Paléontologie 3 1953.

Oryctocephalites Resser 1939 referred to Oryctocephalinae **subfam. n.** p. 186, Hupé **28.**

Oryctocephalus Walcott 1886 referred to Oryctocephalinae **subfam. n.** p. 186, *O. reynoldsi* Reed text-fig. 119 (2), Hupé **28.**

Orygmaspis Resser 1937 referred to Maladiinae **subfam. n.** p. 206, Hupé **28.**

Orygmaspis eryon Shimer & Shrock 1944 (*non* Hall) referred to *Parabolinoides hebe* Frederickson p. 562, Berg **5.**

Osceolinae Ulrich & Resser 1930 emend. taken to include *Osceolia* and *Walcottaspis* p. 213, Hupé **28.**

Otarion Zenker 1833 discussed with list of described spp. pp. 295–298, *O. laurentinum* **sp. n.** Ordovician (Middle) Canada (Quebec) p. 283 text-figs. 1 (diagrammatic), 2–8, 9 *l*, *l′*; following spp. of *O.* and *Cyphaspis* discussed and figured in line-drawings on text-fig. 9 : *megalops* (McCoy) *a*, *a′*, *intermedia* Weller *b*, *christyi* Hall *c*, *c′*, *borealis* Twenhofel *d*, cf. *planifrons* after Reed *e*, *trentonensis* Weller *f*, *f′*, *anticostiensis* T. *g*, [*minima*] Cooper *h*, *h′*, *clintoni* Foerste *i*, *slocomi* Raymond *k*, *diffractum* Zenker *m*, *hydrocephala* Roemer *n*, *n′*, *ceratophthalma* Goldfuss *o*, *o′*, *trigoda* Warburg *p*, *holmi* W. *q*, *q′*, *tumidum* Reed *r*, *r* , *matutina* Reudemann [considered probably not an *Otarion*] *s*, *s′*, *s″*, Stäuble Nat. canad. **80** 12 1953.

Otarion (*Otarion*) *balanops* **sp. n.** for *Cyphaspis hydrocephala* Richter 1914 *partim* [fig. 2] (*non* Roem.) & *O.* (*O.*) n. sp. *A* Erben 1952 p. 73 text-figs. 1 a-c, *O.* (*O.*) *unguloides unguloides* **sp. et subsp. n.** for *O.* (*O.*) n. sp. *B* E. 1952 p. 77 text-figs. 2 a-c, *O.* (*O.*) *u. ranunculum* **subsp. n.** for *O.* (*O.*) n. sp. *B* n. subsp. α E. 1952 p. 79 text-figs. 3 a-c Devonian (Middle) Germany (Eifel), Erben Senckenbergiana **34** 1–3 1953.

Otarion diffractum Zenker text-fig. 122 (10), Hupé **28.**

Otarion sp. p. 852, Sinclair **68.**

Otarionidae R. & E. Richter 1926 referred to Solenopleuroidae and classified into Otarioninae and Cyphaspididinae [quæ vide] p. 199, Hupé **28.**

Otarioninae emend. Přibyl 1946 taken to include *Otarion*, *Coignouina* and *Novákaspis* p. 199, Hupé **28.**

Ouijjania Hupé [nom. nud.] referred to Neoredlichiidae **fam. n.** p. 177, Hupé **28.**

Ouijjania **gen. n.** [Protolenidae (Termierellinae)] pp. 155, 224 for type *O. meridionalis* **sp. n.** p. 225 text-fig. 52 Cambrian (Lower) Morocco (Anti-Atlas), Hupé Notes Serv. Min. Maroc No. 103 1953.

Pachyaspis Resser 1939 referred to Ptychopariinae p. 193, Hupé **28.**

Pachycranium Ross 1951 referred to Hystricuridae **fam. n.** p. 198, Hupé **28.**

Pachycranium ? sp. Ross 1951 considered congeneric wth *Paraplethopeltis ? genacurvus* **sp. n.** [quod vide] p. 202, Hintze **24.**

Paedeumias Walcott 1910 referred to Olenellinae **subfam. n.** p. 175, *P. robsonensis* Burling text-fig. 76 (line drawing), Hupé **28.**

Paedeumias transitans (after Walcott) text-figs. 13.31 E, 13.35 G, Shrock & Twenhofel **66.**

Pagetia ? annio (Cobbold) type of *Angusteva* **gen. n.** p. 114, Hupé **29.**

Pagetia bootes Walcott text-fig. 112 (9), Hupé **28.**

Pagetia clytia (after Walcott) text-figs. 13.34E-G, Shrock & Twenhofel **66.**

Pagetiellus Toll 1899 [recte Lermontova 1940] a synonym of *Alemtjoia* Delgado 1904 [recte *Alemtejoia* Kobayashi 1943] p. 168, Hupé **28.**

Pagetiidae Kobayashi 1935 referred to Eodiscoidae and considered to include *Pagetia* Walcott 1916, *Pagetides* Rasetti 1945 and *Pagetina* Lermontova 1940 p. 168, Hupé **28.**

Pagodidae Kobayashi 1935 *p.p.* a synonym of Leiostegiidae Bradley 1925 p. 208, Hupé **28.**

Paladin Weller 1936 referred to Griffithidinae **subfam. n.** p. 219, Hupé **28.**

Palaeocrepicephalus Kobayashi 1935 a synonym of *Kochaspis* Resser 1935 [quod vide] p. 202, Hupé **28.**

Palaeolenidae Hupé 1952 [recte **fam. n.**] referred to Ellipsocephalidea, divided into Palaeoleninae, Kingaspidinae and Hartshilliinae **subfamm. n.** p. 181, Hupé Traité de Paléontologie **3** 1953.

Palaeolenidae nov. fam. [Hupé 1953] including Palaeoleninae, Kingaspidinae and Hartshilliinae pp. 157, 251, Hupé **29.**

Palaeoleninae Hupé 1952 [recte **subfam. n.**] [Palaeolenidae] for *Palaeolenus* Mansuy 1912, *Luaspis* and *Hoffetella* Hupé [nomina nuda], and *Hupeia* Kobayashi 1944 p. 181, Hupé Traité de Paléontologie **3** 1953.

Palaeoleninae nov. subfam. [Hupé 1953] taken to include *Palaeolenus*, *Hupeia*, and *Luaspis* & *Hoffetella* **genn. n.** p. 158, Hupé **29.**

Palaeolenus Mansuy 1912 referred to Palaeolenidae (Palaeoleninae) **fam. et subfam. n.** p. 181, Hupé **28.**

Palaeolenus campbelli and *P.* sp. of G. & H. Termier 1950 from Morocco referred tentatively to *Kingaspis* (*Kingaspidoides*) **subgen. n.** p. 287, Hupé **29.**

Palpebralia see *Drevermannia*.

Palpebralia R. & E. Richter 1928 referred to Cyrtosymbolinae **subfam. n.** p. 217, Hupé **28.**

Papyriaspinae Whitehouse accepted as including *Papyriaspis*, *Hedinia*, *Pianaspis* and ? *Rhodonaspis* p. 207, *Lopnorites* may also belong p. 204, Hupé **28.**

Parabailiella Thoral 1946 referred to Bailiellinae **subfam. n.** p. 194, Hupé **28.**

Parabarrandia Prantl & Přibyl 1948 [recte 1949] considered of generic status and referred to Nileidae (Parabarrandiinae) **subfam. n.** p. 221, Hupé **28.**

Parabarrandiinae **subfam. n.** [Nileidae] for *Parabarrandia* Prantl & Přibyl 1948 [recte 1949] p. 221, Hupé Traité de Paléontologie **3** 1953.

Parabasilicus Kobayashi 1934 see Asaphinae.

Parabellefontia **gen. n.** [no family assigned, intermediate between *Bellefontia* and *Symphysurina*] p. 193 for type *P. concinna* **sp. n.** Ordovician (Lower) U.S.A. (Utah) p. 194 pl. iii figs. 1–8, Hintze Bull. Utah geol. min. Surv. **48** 1953.

Parablackwelderia Kobayashi 1942 referred to Drepanurinae **subfam. n.** p. 205, Hupé **28.**

? *Parabolina australis* Rusconi referred to *Triarthropsis* p. 3, Rusconi **63.**

Parabolina spinulosa text-figs. 69 (20, 21), Holtedahl **25.**

Parabolinella Brögger 1882 referred tentatively to Elviniidae (Elviniinae) p. 206, but to Olenidae (Oleninae) p. 207, Hupé **28.**

Parabolinella triarthroides Harrington 1938 p. 139, Shaw **65.**

Parabolinoides Frederickson 1949 referred to Maladiinae **subfam. n.** p. 206, Hupé **28.**

Parabolinoides Frederickson 1949 description, considered to include *Maustonia* Lochman 1950 (*non* Raasch) p. 563, *P. contractus* F. with synonym *P. expansa* Nelson 1951 (considered a geographic variant of *P. c.*) p. 564 pl. lix fig. 3, *P. hebe* F. with synonym *Orygmaspis eryon* Shimer & Shrock 1944 (*non* Hall) p. 564 pl. lix figs. 2, 4, *P. palatus* **sp. n.** Cambrian (Upper) U.S.A. (Wisconsin) p. 565 pl. lix figs. 5, 8; *P. cordillerensis* for *Maustonia c.* Lochman 1950 p. 563, *P. hedrus* Kurtz 1952 *partim* (pl. 32 fig. 2 a) referred to *Maustonia* p. 563, *P. parallela* Nelson 1951 a synonym of *M. nasuta* (Hall) p. 563, Berg J. Paleont. **27** 4 1953.

Parabriscoia ? flabellifer for *Dicellocephalus f.* Hall & Whitfield 1877 p. 58, Kobayashi **40.**

Paracedaria Duncan 1949 (= *Pilgrimia* D. 1944 *non* Osborn) referred to Pilgrimiidae **fam. n.** p. 201, Hupé **28.**

Paracedaria Duncan 1949 referred to Raymondininae p. 891, Lochman **49.**

Paradechenella Richter 1912 considered of generic status and referred to Dechenellidae p. 219, Hupé **28.**

Paradiscus (*Serrodiscus*) *coloi* nov. sp. [Hupé 1953 as *S. coloi* quod vide], *P.* (*S.*) cf. *speciosus* R. & E. Richter p. 43, Hupé **30.**

Paradiscus speciosus Ford text-fig. 112 (1), Hupé **28.**

Paradiscus (*Serrodiscus*) cf. *speciosus* Ford of R. & E. Richter 1941 discussed p. 110 text-fig. 13 (1), Hupé **29.**

Paradoxides distribution text-fig. 96 (map), *P. spinulosus* Boeck text-fig. 118 (6), *P.* spp. [various] growth-stages after different authors text-figs. 50, 56, 81, Hupé **28.**

Paradoxides recorded from same beds as *Protolenus* and *Kingaspis* p. 1170, Choubert & Hupé **11.**

Paradoxides recorded p. 237, Stubblefield *in* Whittard et al. **80.**

Paradoxides cf. *orphanus* of Gigout 1937 type of *Gigoutella* **gen. n.** p. 73, *P. walcotti* Shaler & Foerste 1888 suggests *Xystridura* footnote, *P.* sp. from Morocco p. 61, Hupé **29.**

Paradoxides paradoxissimus (Wahlenberg 1821) type specimen refigured p. 34 pl. viii fig. 2, following spp. also listed from Middle Cambrian of Scandinavia: aff. *p.* (Wahl.) *?*, (*groomi* Lapw. *?*), *insularis*, *quadrimucronatus*, *bidentatus*, *pinus*, *torelli* Wgård spp., *sjögreni*, cf. *s.*, *palpebrosus*, *brachyrhachis* Linrs. spp., *oelandicus*, aff. *oelandicus* Sjögr.*?*, *jemtlandicus* Wim., *paradoxus* (Linné), *hicksii*, *davidis* Salt. spp., *forchhammeri* Ang. p. 36, Westergård **79.**

Paradoxides paradoxissimus=*P. tessini* text-figs. 69 (7, 8), *P. forchammeri* text-figs. 69 (13, 14), *P. ölandicus* and *P. davidis* p. 185, Holtedahl **25.**

Paradoxididae Emmrich 1839 referred to Ellipsocephalidea, classified into Paradoxidinae, Centropleurinae and Xystridurinae p. 181, Hupé **28.**

Paradoxidinae Howell 1937 taken to include *Paradoxides* and *Plutonia* p. 181, Hupé **28.**

Paragraulos Lu 1941 referred to Agraulidae p. 187, Hupé **28.**

Parahomalonotus Reed 1918 referred to Homalonotinae **subfam. n.** p. 233, Hupé **28.**

Parahystricurus Ross 1951 referred to Hystricuridae **fam. n.** p. 198, Hupé **28.**

Parahystricurus aff. *P. fraudator* Ross p. 195 pl. viii fig. 1, *P. bispicatus* **sp. n.** p. 195 pl. viii figs. 3–4 Ordovician (Lower) U.S.A. (Utah), *P.* sp. listed pp. 11, 12, Hintze Bull. Utah geol. min. Surv. **48** 1953.

Parahystricurus sp. p. 638 pl. lxiii figs. 27, 31, Ross **59.**

Parairvingella Kobayashi 1938 a subjective synonym of *Irvingella* Ulrich & Resser 1925 p. 887, Lochman **48.**

Parakainella **subgen. n.** of *Pseudokainella* Harrington 1938 [quod vide] p. 43, Kobayashi **40.**

Paramansuyella Resser & Endo 1937 referred to Mansuyinae **subfam. n.** p. 208, Hupé **28.**

Paranileus **gen. n.** [no family assigned, probably unrelated to *Nileus*] p. 196 for type *P. ibexensis* **sp. n.** p. 199 pl. xii figs. 6–12, *P. elongatus* **sp. n.** p. 199 pl. xii figs. 2–5, *P. utahensis* **sp. n.** p. 200 pl. xiii figs. 1–4 Ordovician (Lower) U.S.A. (Utah), *P.* aff. *P. utahensis* pl. xii figs. 1a, b, *P.* cf. *P. ibexensis* listed p. 16, *P.* sp. listed p. 18, Hintze Bull. Utah geol. min. Surv. **48** 1953.

Paranorwoodia Rasetti 1945 referred to Norwoodiinae p. 201, Hupé **28.**

Paraphillipsia Toumansky 1935 referred to Griffithidinae **subfam. n.** p. 219, Hupé **28.**

Parapilekia Kobayashi 1934 referred to Protopliomeropsinae **subfam. n.** p. 237, Hupé **28.**

Parapilekia ? sp. listed p. 19, Hintze **24.**

Paraplatiagnostus Bridge & Cloud 1947 (suppressed). *P.* ? *paranarinus* sp. n. p. 202 pl. vii figs. 1–3 and *P.* ? *paranarinus* (spelt *paranarinus* on pl. exp.) sp. n. p. 204 pl. vii figs 6–9 Ordovician Lower U.S.A. (Utah); *Hypomarrus* sp. E. Ross. *H.* ? sp. L. R. *Paradigonomus* ? sp. Ross and *Hypomarrus vallis* Poulsen 1967 considered congeneric with *P.* ? *genacerinus* & *P.* ? *paranarinus* p. 202. Hintze Bull. Utah geol. min. Surv. 48 1953.

Paradelichina gen. nondescr. [Redlichiidae Paradelichinae] for type *Redlichia noetlingi* Resser & Endo p. 177. Hupé 28.

Paradelichina gen. n. [Redlichiidae Paradelichinae] p. 164 for type *P. paradelichina* sp. n. p. 165 pl. ix figs. 6, 8 text-figs. 36 75, 87a (line drawings). *P. [illegible]* sp. n. p. 165 pl. ix fig. 7 text-figs 36 74, 87a. *P. [illegible]* sp. n. p. 167 pl. ix fig. 11 text-fig. 87c Cambrian Lower Morocco (Anti-Atlas) [gen. et spp. nomina nuda 1952]. *P.* ? *[illegible]* form pl. ix fig. 4. *P. [illegible]* Resser & Endo for *Redlichia [illegible]* R. & E. text-fig. 36 (lower). *P. [illegible]* Mansuy also referred p. 164. Hupé Notes Serv. Min. Maroc No. 103 1953.

Paradelichiinae Hupé 1952 (recte 1953) subfam. of Redlichiidae for *Paradelichia* H. [gen. nondescr.] p. 177. Hupé 28.

Paradelichinae subfam. n. Redlichiidae p. 149 for *Paradelichia* gen. n., Hupé Notes Serv. Min. Maroc No. 103 1953.

Paradiplopleura gen. n. [Solenopleuridae] p. 21 for type *Liostracus [illegible]* [Angelin], relations to *Solenopleura* A. pp. 9, 21. *P. [illegible]* [Linnarsson 1877 for *S.* ? L. holotype redigured, Strand 1929 excluded] p. 22 pl. ii figs 4, 5. *P. [illegible]* [A. 1851 lectotype figured p. 23 pl. v figs 6–10, pl. vi figs. 1–4. *P. [illegible]* sp. n. Sweden (Scania) p. 23 pl. vi figs 5–8. *P. [illegible]* [Brögger 1878 for *L. l.* B. 1878 *parva* lectotype provisionally chosen and figured, sp. restricted p. 26 pl. vi figs. 9–12, ? pl. vii figs. 1–5. *P. l. brevicauda* subsp. n. Sweden (Scania) p. 28 pl. vi figs. 13, ? 14, *P.* cf. *l.* p. 29 pl. vii figs. 6–8, *P. spinigera* sp. n. including *L. [illegible]* B. 1878 (*non* A.) p. 29 pl. vi figs 15 and ? pl. vii figs 1–5 [latter include provisional holotype of *P.* ?]. *P. [illegible]* sp. n. Sweden (Västergötland) p. 29 pl. v. figs. 16 and *P.* ? *paranarina* Walcott 1881 for *Liostracus* p. W. p. 80 pl. vii figs 8–12 Cambrian Middle, Westmanland Swang geol. Unders. Afh. (C) No. 526 1953.

Paradiplopleura Westergård 1953 referred to Paradiplopleuridae fam. n. p. 182. Hupé 28.

Paradiplopleuridae fam. n. to include *Paradiplopleura*, *Amphytrachelus*, *Solenopleura*, *Paradiplopleura*; gen. nondescr., *Malkiaia* and ? *Conocephalites* p. 188. Hupé Traité de Paléontologie 3 1953.

Paradiplopleuridae superfam. n. to include Yunnanocephalidae, Paradiplopleuridae and Antinoeanidae famm. n. and Yokuseniidae p. 188. Hupé Traité de Paléontologie 3 1953.

Paradoxaspis Hupé [*nom. nud.*] referred to Protoleninae subfam. n. p. 180. Hupé 28.

Paraterwierella gen. n. [Protolenidae (Protoleninae)] pp. 156, 215 for type *P. elegans* sp. n. [nom. nud. 1952] p. 240 text-fig. 58 Cambrian (Lower) Morocco (Anti-Atlas), *P.* sp. p. 66. Hupé Notes Serv. Min. Maroc No. 103 1953.

Paraterwierella nov. gen. [Hupé 1953] referred to Terwierellinae p. 44. Hupé 30.

Paradiaspis Kobayashi 1943 a synonym of *Ptychoparia* Lermontova 1940 p. 182. Hupé 28.

Pardailhania Thoral 1947 referred to Saoidae fam. n. p. 193. Hupé 28.

Parehmania Deiss 1939 referred to Etrathiellinae subfam. n. p. 193. Hupé 28.

Parcops gen. n. [Neoredlichiidae] pp. 149, 180 for type *P. [illegible]* sp. n. [nom. nud. 1952] p. 181 text-fig. 42 Cambrian (Lower) Morocco (Anti-Atlas), ? *P.* sp. p. 66. Hupé Notes Serv. Min. Maroc No. 103 1953.

Parkaspis Rasetti 1951 referred to Bathyuriscinae subfam. n. p. 184. Hupé 28.

Parodiscus coloi Hupé 1952 nom. nud. see *Serrodiscus coloi* **sp. n.**

Peishania Resser & Endo 1937 referred to Anomocarellidae **fam. n.** p. 189, Hupé **28.**

Peltabellia **gen. n.** [Bathyuridae] for type *Jeffersonia peltabella* Ross 1951 Ordovician (Lower) U.S.A. (Utah) p. 662, following spp. also included in *P.* — *J. missouriensis* Cullison 1944 *partim*, *Bathyurellus permarginatus* C. 1944 and *Bathyurus amplimarginatus* Billings 1859, *J.* sp. A. & *J.* ? sp. B. Hintze 1953 (last two tentatively), Whittington J. Paleont. 27 5 1953.

? *Peltura jarillana* **sp. n.** Cambrian (Upper) Argentina p. 2 text-fig. 5, Rusconi Bol. paleont. B. Aires No. 27 1953.

Peltura scarabaeoides (Wahlenberg) p. 75, Tjernvik **77.**

Peltura scarabaeoides text-figs. 69 (25–26), Holtedahl **25.**

Periomma Resser 1937 referred to Nepeidae p. 192, Hupé **28.**

Periommella Resser 1938 referred to Nepeidae p. 192, Hupé **28.**

Permoproetinae **subfam. n.** [? Proetidae] for *Permoproetus* Toumansky 1935 p. 217, Hupé Traité de Paléontologie 3 1953.

Permoproetus Toumansky 1935 see Permoproetinae **subfam. n.**

Perneria Růžička 1935 referred to Solenopariidae **fam. n.** p. 195, Hupé **28.**

Peronopsis see *Agnostus*.

Peronopsis see *Peronospis*.

Peronopsis Corda 1847 referred to Spinagnostidae p. 174, Hupé **28.**

Peronospis [recte *Peronopsis*] *jarillensis* **sp. n.** Cambrian (Upper) Argentina p. 4 [unillustr.], Rusconi Bol. paleont. B. Aires No. 27 1953.

Perrector R. & E. Richter 1940 referred to Neoredlichiidae **fam. n.** p. 177, Hupé **28.**

Perrector R. & E. Richter 1940 referred to Neoredlichiidae p. 185, *P. pocteyi* **sp. n.** p. 188 text-fig. 44 (2) Cambrian (Lower) Morocco (Anti-Atlas), *P.* cf. *p.* p. 60; *P. perrectus* R. & E. R. of Neltner & Poctey 1949 and G. & H. Termier 1950 *partim* referred to *Clariondia* ? sp. p. 189, Hupé Notes Serv. Min. Maroc No. 103 1953.

Petigurus Raymond 1913 referred to Bathyurinae **subfam. n.** p. 198, Hupé **28.**

Petigurus Raymond 1913 discussed, *P. nero* (Billings) 1865 lectotype selected and figured p. 658 pl. lxvi figs. 18–20, 23–25, text-figs. 3A–B, *P. cybele* (B.) 1859 *partim*, *P. groenlandicus* Poulsen 1937, *P.* sp. P. 1946 discussed, *P. n.* [Peach 1913 *non* B.] referred to *P.* sp. p. 658, *P. subrectus* Bradley 1925 to *Goniotelina* **gen. n.** p. 666, Whittington **81.**

Phacopidae Hawle & Corda 1847 emend. Delo 1935—classification of Delo accepted into Phacopinae, Phacopidellinae, Acastinae and Calmoniinae p. 235, Hupé **28.**

Phacopidina harnagensis Bancroft p. 243, Whittard *in* Whittard et al. **80.**

Phacopoidae Salter emend. Delo classified following Delo into Dalmanitidae D. and Phacopidae Hawle & Corda p. 233, Hupé **28.**

Phacops cristata p. 92, Sargent **64.**

Phacops fecundus Barrande text-fig. 137 (2), Hupé **28.**

Phacops (*fecundus* type) from Australasia p. 90, Gill **21.**

Phacops granulatus (Münster), *P. karagailensis* Balaschova sp. nov. [nom. nud.] Devonian (Upper) Russia p. 414, Balaschova & Balaschov **2.**

Phacops mucronatus — revision (in abstract) of forms previously assigned p. 102, Temple **76.**

Phacops stokesi ? text-figs. 81 (11, 12), Holtedahl **25.**

Phacops sp. p. 151, Glinski **22.**

Phaetonellus Novák 1890 relations to Proetinae tabulated, *P. planicaudus p.* Barrande 1852 p. 610 text-figs. 29–31, Pillet **54.**

Phaetonellus planicauda text-fig. 128 (3), Hupé **28.**

Phalacroma lasherensis Rusc., *P. australis* R., *P. elongata* R. p. 6, Rusconi **60,**

Phalacromidae Corda 1847 considered of family status to include *Phalacroma*, *Phoidagnostus* and *Ceraagnostus* p. 172, HUPÉ **28**.

Pharostoma Corda 1867 [recte 1847] referred to Pharostomidae **fam. n.** p. 232, HUPÉ **28**.

Pharostoma mendozana **sp. n.** Ordovician Argentina (Mendoza) p. 5 [unillustr.], RUSCONI Bol. paleont. B. Aires No. 25 1953.

Pharostoma pulchrum (Barrande) p. 239, WHITTARD *in* WHITTARD ET AL. **80**.

Pharostomidae **fam. n.** [Calymenoidae] for *Euloma* Angelin, ? *Calymenopsis* Mun.-Chalm. & Berg. and *Pharostoma* Corda p. 232, *Calymenidius* Rasetti may also belong to family, HUPÉ Traité de Paléontologie 3 1953.

Phillibole R. & E. Richter 1937 referred to Cyrtosymbolinae **subfam. n.** p. 217, HUPÉ **28**.

Phillibole R. & E. Richter 1937 geographical range discussed, *P.* (*Phillibole*) *aprathensis aprathensis* R. & E. R. 1937 p. 211 pl. i figs. 5–6, *P.* (*P.*) *a. moravica* **subsp. n.** p. 213 pl. i fig. 4, *P.* (*P.*) *opatovicensis* **sp. n.** for *P. aequalis* Hromada 1948 (*non* Meyer) Carboniferous (Lower) Czechoslovakia (Moravia) p. 215 pl. i figs. 1–3, pl. ii figs. 2–3, *P.* (*Liobole*) *weberi* **sp. n.** for *Typhloproetus aequalis* Weber 1937 (*non* M.) lectotype chosen, *P.* (*Phillibole*) [? error pro *Liobole*] *megalopthalma* for *T. aequalis* var. *m.* W. p. 218, *P.* (*P.*) *aequalis* (Meyer) lectotype figured pl. i figs. 9–10, *P.* (*P.*) *culmica* R. & E. R. pl. i fig. 7, PŘIBYL Bull. int. Acad. Prague **51** (for 1950) 1953.

Phillibole R. & E. Richter recorded from England (Yorkshire) p. 89, *P.* aff. *culmica* R. & E. R. and *P.* cf. *c.*, *P.* cf. *laevicauda* (Sarres), *P.* cf. *megalophthalma* (Weber), *P.* cf. *aequalis* (von Meyer), *P.* cf. *polleni* (H. Woodward) and *P.* sp. p. 10, STUBBLEFIELD **74**.

Phillibole (*Cystispina*) see *Cystispina*.

Phillipsia from Sahara pp. 19, 25, FOLLOT **19**.

Phillipsia gemmulifera Phillips text-fig. 128 (8), *P. mucronata* McCoy referred to *Eocyphinium* Reed text-fig. 128 (6), HUPÉ **28**.

Phillipsia latilimbata and var. *torus* Schwarzbach 1936 synonyms of *Weberides mládeki* (Smetana 1916) p. 221, *P. l. cuneiformis* Schw. with probable synonym *P. l. insolita* Schw. referred to as *W. m. cuneiformis* p. 223, *P.* n. sp. [undescr.] p. 226, PŘIBYL **55**.

Phillipsia (*Ameura*) *plummeri* **sp. n.** p. 16 pl. figs. 1, 2 text-figs. 2a, b, 3a, *P.* (*A.*) *duartei* **sp. n.** for *Anisopyge antiqua ?* of Duarte 1938 p. 22 pl. figs. 3, 4 text-fig. 3b Carboniferous (Upper) Brazil (Piauí and Amazonas), KEGEL Bol. Div. Geol. min., Rio de J. No. 135 1951.

Phillipsiidae Oehlert 1886 referred to Proetoidae and classified into Phillipsiinae, Griffithidinae, Ditomopyginae and Anisopyginae p. 219, HUPÉ **28**.

Phillipsiinae (Oehlert 1886 emend.) taken to include *Phillipsia* alone p. 219, HUPÉ **28**.

Phillipsinella parabola p. 87, STØRMER **73**.

Phillipsinella parabola reconstruction (after Whittington) text-fig. 13.31 B, SHROCK & TWENHOFEL **66**.

Phillipsinellidae Whittington 1950 referred to Scutelloidae **superfam. n.** p. 224, HUPÉ **28**.

Phoreotropis Raymond 1924 referred to Utiadae p. 200, HUPÉ **28**.

Phoreotropis see New genus B.

Phylacterus Raymond 1924 referred tentatively to Emmrichellidae p. 200, HUPÉ **28**.

Piazella Lochman 1947 referred to Antagmidae **fam. n.** p. 192, HUPÉ **28**.

Piedmontia Resser 1938 referred tentatively to Lonchocephalidae **fam. n.** p. 197, HUPÉ **28**.

Piedmontia Resser 1938 a subjective synonym of *Bonneterrina* Lochman 1936 p. 887, LOCHMAN **48**.

Pilekia ? trio **sp. n.** Ordovician (Lower) U.S.A. (Utah) p. 205 pl. xxi fig. 1 with which *P. ?* sp. Ross 1951 may be conspecific, *P. ?* sp. listed p. 10, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Pilgrimia see *Paracedaria*.

Pilgrimiidae **fam. n.** [Utioidae] for *Paracedaria* Duncan 1949 [quod vide], *Holcacephalus*, *Amquia*, *Brassicicephalus*, ? *Blountiella*, *Xenocheilos* and *Westonaspis* p. 201, HUPÉ Traité de Paléontologie **3** 1953.

Pinctus Wilson 1951 referred tentatively to Talbotinidae **fam. n.** p. 197, HUPÉ **28.**

Piriproetus Erben 1952 considered a subgenus of *Cornuproetus* R. & E. Richter 1919 p. 598, PILLET **54.**

Placoparia Corda 1847 referred to Pliomeridae (Placopariinae) **subfam. n.** p. 237, HUPÉ **28.**

Placopariinae **subfam. n.** [Pliomeridae] for *Placoparia* Corda 1847 p. 237, HUPÉ Traité de Paléontologie **3** 1953.

Placoparina sedgwicki (McCoy) p. 239, WHITTARD *in* WHITTARD ET AL. **80.**

Plaesiacomia Hawle & Corda 1847 emend. Prantl & Přibyl 1948 referred to Eohomalonotinae **subfam. n.** p. 233, HUPÉ **28.**

Plagiura Resser 1935 referred to Plagiurinae **subfam. n.** p. 192, HUPÉ **28.**

Plagiurella Resser 1935 referred to Plagiurinae **subfam. n.** p. 192, HUPÉ **28.**

Plagiurinae **subfam. n.** [Elrathinidae **fam. n.**] for *Plagiura* and *Plagiurella* p. 192, HUPÉ Traité de Paléontologie **3** 1953.

Platagnostidae Howell 1935 accepted for *Platagnostus* p. 171, HUPÉ **28.**

Platagnostus glabella (diagrammatic) text-fig. 114 (4), *P. bibullatus* Barrande text-fig. 113 (lower right), HUPÉ **28.**

Plataspella Wilson 1949 a subjective synonym of *Iddingsia* Walcott 1925, *P.* and *I.* not accepted as end-members of a continuous series p. 888, LOCHMAN **48.**

Platyantyx **gen. n.** [Bathyuridae] for type *Bathyurus arcuatus* Billings 1865 Ordovician Canada of which type material described and figured p. 667 pl. lxviii figs. 22–29, WHITTINGTON J. Paleont. **27** 5 1953.

Platycalymene dilatata (Tullb.) pp. 128, 131, LINDSTRÖM **46.**

Platycalymene tasgarensis Shirley p. 239, WHITTARD *in* WHITTARD ET AL. **80.**

Platycolpus Raymond 1913 (*non* Donald 1900) referred tentatively to Leiostegiidae Bradley 1925 p. 670, WHITTINGTON **81.**

Platycolpus Raymond 1913 (*non* Donald 1900) renamed *Rasettia* **nom. n.** p. 886, LOCHMAN **48.**

Platycolpus capax Billings text-fig. 9 (6) line drawing, HUPÉ **28.**

Platycolpus crucensis **sp. n.** p. 2 text-fig. 3, *P. excavatus* **sp. n.** p. 2 text-fig. 4 Cambrian (Upper) Argentina, RUSCONI Bol. paleont B. Aires No. 27 1953.

Platycolpus sp. p. 140, SHAW **65.**

Platydiamesus Raymond 1937 referred to Lecanopygidae **fam. n.** p. 889, LOCHMAN **49.**

Platylichas Gürich 1901—*Metalichas* Reed 1902 a synonym p. 228, HUPÉ **28.**

Platylichas laxatus (McCoy) p. 102, JAANUSSON **31.**

Platypeltoides Přibyl 1948 [recte 1949] referred to Ogygiocarinae, but may belong to Nileidae p. 222, HUPÉ **28.**

Plectasaphus **gen. n.** [Asaphidae] for type *Asaphus plicicostis* Törnquist 1884 Ordovician (Middle) Sweden (Dalarna) lectotype chosen and figured p. 438 pl. vii figs. 5–9, pl. viii figs. 1–6, text-figs. 5 (6), 13, JAANUSSON Ark. Min. **1** 14 1953.

Plesiaspis Prantl & Přibyl 1948 error pro *Plasiaspis* Prantl & Přibyl 1949 p. 239, HUPÉ **28.**

Plethagnostus jarillensis **sp. n.** Cambrian (Upper) Argentina p. 4 [unillustr.], RUSCONI Bol. paleont. B. Aires No. 27 1953.

Plethometopus Ulrich 1930 referred to Plethopeltidae p. 188, HUPÉ **28.**

Pleuroctenium Ulrich 1931 [sic]—*Enontiovra* Resser 1942 [quod vide] a subjective synonym p. 888, Lochman **48**.

Pleuroctenium sp. p. 641, Bass & Nelson **4**.

Pleuropeltidae Raymond 1924 referred to Agnostidae superfam. n., taken to include following unrelated forms of probably different origins [illegible] *Koldinia*, *Bynumia*, *Bynumiella*, *Arapahoia*, *Plethometopus*, *Plethopeltis* and *Brachyaspidion* p. 188, Hupé **28**.

Pleuropeltidae Raymond 1928 interpreted to include *Pleuropeltis* R. 1915, *Arapahoia* Miller 1936, *Leiocoryphe* Clark 1924, *Paraplethopeltis* Bridge & Cloud 1947, *Plethometopus* Ulrich 1931, *Stenopilus* R. 1924 and [illegible] R. [illegible] p. [illegible], Lochman **48**.

Pleuroctenium glabella (diagrammatic) text-fig. 114 (3), *P. granulatus* Barrande text-fig. 113 (lower left), Hupé **28**.

Plicatolina Shaw 1951 referred to Oleninae p. 207, Hupé **28**.

Plicatolina kindlei Shaw 1951 p. 139, Shaw **65**.

Pliomera [illegible] Angelin 1854 possibly referable to *Pliomerops* Holliday 1942 p. 229, Hintze **24**.

Pliomera [illegible] sp. nov. [nom. nud.], *P. [illegible]* Wek., *P.* cf. *[illegible]* Perm., *P. [illegible]* W. p. 1944, Kobayashi **42**.

Pliomerella Reed 1941 referred to Pliomeridae Pliomerellinae subfam. n. p. 237, Hupé **28**.

Pliomerella [illegible] sp. n. Ordovician Middle U.S.A. Va p. 26 pl. x figs 1–4, Cooper Mem. geol. Soc. Amer. No. 55 1953.

Pliomerellinae subfam. n. [Pliomeridae] for *Pliomerella* Reed 1941 p. 237, Hupé Traité de Paleontologie 3 1953.

Pliomerid pygidia under. listed p. 14, Hintze **24**.

Pliomeridae (Raymond 1913) referred to Cheiruroidae and classified into Pliomerellinae, Pliomerinae, Pliomerellinae subfamm. n. and Pliomerinae p. 237, Hupé **28**.

Pliomerinae Raymond 1913 emend. taken to include *Pliomerops* R., *Pseudosphaerexochus* Holliday and *Pliomera* Angelin p. 237, Hupé **28**.

Pliomerops Raymond 1905 referred to Pliomerinae emend. p. 237, Hupé **28**.

Pliomerops canadensis (Billings) 1859 [forms provisionally referred] p. 29 pl. x figs 1–10, F. c. of Burns 1941 excluded, Cooper **12**.

Plusiargos Gürich 1901 a synonym of *Trochurus* Beyrich 1845 p. 228, Hupé **28**.

Plutonia Hicks 1871 referred to Paradoxidinae p. 181, Hupé **28**.

Poliella Walcott 1916 referred to Bathyuriscinae subfam. n. p. 184, Hupé **28**.

Poliellaspis Lermontova 1940 [erroneously called *Pollielaspis* Poletayeva 1936] referred to Bathyuriscinae subfam. n. p. 184, Hupé **28**.

Poliellina Poletayeva 1936 referred to Bathyuriscinae subfam. n. p. 184, Hupé **28**.

Pollielaspis Poletayeva 1936 error pro *Poliellaspis* Lermontova 1940 [quod vide] p. 184, Hupé **28**.

Polymera Jaekel 1909 accepted as an order to include superfamilies Olenellidae, Redlichiidae, Corynexochidae, Agnostidae, Paradoxidinae, Solenopleuridae, Phyllacanthidae, Ptychopariidae, Ulrichiidae, Asaphiscidae, Otarionidae, Dikelocephalidae, Proetidae, Asaphidae, Scutellidae, Lichidae, Telephinidae, Odontopleuridae, Calymenidae, Phacopidae, Cheiruridae and Trinucleidae p. 174, Hupé **28**.

Pomeroyella gen. n. Triarthridae for type *Triarthrus caecigenus* Raymond 1920 p. 8 pl. ii figs. 7–10, pl. xix fig. 4 Ordovician (Middle) U.S.A., Cooper Mem. geol. Soc. Amer. No. 55 1953.

Portlockia cf. *stokesii* (Milne-Edwards) p. 199, Williams **84**.

Poulsenia Resser 1936 referred to Elrathininae **subfam. n.** p. 192, HUPÉ **28.**

Prantlia Přibyl 1946 referred to Eodrevermanniinae **subfam. n.** p. 217, HUPÉ **28.**

Prantlia Přibyl 1946 considered a subgenus of *Proetus ?* p. 598, PILLET **54.**

Primaspis glabella (schematic) text-fig. 62 (1), HUPÉ **28.**

Princetonella **gen. n.** (**nom. n.** for *Calyptomma* Resser 1942 *non* Tattersall 1909) p. 886, LOCHMAN J. Paleont. 27 6 1953.

Princetonella Lochman 1953 referred to Komaspidae p. 894, LOCHMAN **49.**

Prionopeltinae Přibyl 1945 accepted for *Prionopeltis* and *Phaetonellus* p. 217, HUPÉ **28.**

Proampyx Frech 1897 [erroneously ascribed to Angelin 1854] referred to Acrocephalitidae **fam. n.** p. 197, HUPÉ **28.**

Proampyx Frech 1897 a subjective synonym of *Agraulos* Corda 1847 p. 3, WESTERGÅRD **79.**

Proasaphiscus — *Ptychoparia tenuicaudata* Resser & Endo 1937 probably referable p. 260, HUPÉ **29.**

Probowmannia [sic] Kobayashi 1935 referred tentatively to Emmrichellidae p. 200, HUPÉ **28.**

Proceratopyge conifrons Wall., *P. magnicauda* Wgård listed p. 36, WESTERGÅRD **79.**

Prochuangia Kobayashi 1935 referred tentatively to Mansuyinae **subfam. n.** p. 208, HUPÉ **28.**

Proerbia Lermontova 1940 referred to Proerbiidae **fam. n.** p. 182, HUPÉ **28.**

Proerbiidae **fam. n.** [? Corynexochoidae] for *Proerbia*, *Erbia* and ? *Erbiopsis* Lermontova 1940 p. 182, HUPÉ Traité de Paléontologie 3 1953.

Proetidae Hawle & Corda 1847 emend. [so ascribed] referred to Proetoidae and classified into Proetinae, Proetidellinae, Prionopeltinae and ? Permoproetinae p. 216, HUPÉ **28.**

Proetidella Bancroft 1949 referred to Proetidellinae **subfam. n.** p. 217, HUPÉ **28.**

Proetidellinae **subfam. n.** [Proetidae] for *Proetidella*, *Warburgaspis* and ? *Warburgella* p. 217, HUPÉ Traité de Paléontologie 3 1953.

Proetinae (Hawle & Corda 1847 emend.) grouped into (i) *Isbergia*, *Proetus*, *Cornuproetus*, *Eremiproetus*; (ii) *Xiphogonium*, *Cyphoproetus*, *Decoroproetus*, *Perliproetus* p. 216, HUPÉ **28.**

Proetinae classified into *Proetus* Steininger 1831, *Cornuproetus* R. & E. Richter 1919, *Eremiproetus* R. & E. R. 1919, *Perliproetus* R. & E. R. 1926; *Cyphoproetus* Kegel and *Isbergia* Warburg 1925 considered Proetinae ? p. 598, PILLET **54.**

Proetoidae taken to include Holotrachelidae, Proetidae, Tropidocoryphidae, Cyrtosymbolidae, Dechenellidae, Phillipsiidae and ? Brachymetopidae p. 216, HUPÉ **28.**

Proetus Steininger 1831 classified into *P.* (*Proetus*) s. str., *P.* (*Warburgaspis*), *P.* ? (*Decoroproetus*), *P.* ? (*Prantlia*) Přibyl 1946 and *P.* ? (*Unguliproetus*) Erben 1951; *P.* (*Proetus*) *orbitatus* Barrande 1846 with synonymy p. 598 text-figs. 35–36, *P.* (*P.*) *tuberculatus* B. 1846 relations discussed p. 599 text-figs. 32–34, following spp. listed from Devonian of Armorican massif *bohemicus* H. & C., *oehlerti* Bayle, *rondeaui* Oehlert, *cuvieri* Steininger, *guerangeri* O. & D., ? *fallax* Barr. and *P.* (*P.*) nov. sp. 1 [undescr.] p. 614, *P.* ? (*Unguliproetus*) *rarissimus* Barr. and *P.* (nov. subgen.) nov. sp. 2 [undescr.] also listed p. 614, PILLET **54.**

Proetus beecheri Ruedemann p. 66, KAY **36.**

Proetus bohemicus Corda text-figs. 5 D (line drawing) and 128 (1), HUPÉ **28.**

Proetus mailisorensis Web. p. 1044, KOROLEVA **42.**

Proetus peeblesi [sp. nondescr. Lamont 1948] p. 28, LAMONT **44.**

"*Proetus*" *pila* Weber 1937 referred tentatively to *Cyrtoproetus* Reed 1943 p. 227, PŘIBYL **55.**

Proetus (s. l.) *strasburgensis* **sp. n.** p. 19 pl. i figs. 15–19, *P. ? blandi* **sp. n.** p. 20 pl. i figs. 13–14, 23–26 Ordovician (Middle) U.S.A. (Va), COOPER Mem. geol. Soc. Amer. No. 55 1953.

Proetus stringocephali R. & E. Richter p. 151, GLINSKI **22.**

Proetus sp. p. 20, ADAMS & COWIE **1.**

Proetus s. l. spp. p. 847, SINCLAIR **68.**

Proetus (*Astroproetus*) see *Astroproetus.*

Proetus (*Cornuproetus*) see *Cornuproetus.*

Proetus (*Decoroproetus*) see *Decoroproetus.*

Proetus (*Eremiproetus*) see *Eremiproetus.*

Proetus (*Lepidoproetus*) see *Lepidoproetus.*

Proetus (*Piriproetus*) see *Piriproetus.*

Proetus (*Sculptoproetus*) see *Sculptoproetus.*

Proetus (*Semiproetus*) see *Semiproetus.*

Proetus (*Warburgaspis*) see *Warburgaspis.*

Proliostracus Poulsen 1932 referred to Antagmidae **fam. n.** p. 192, HUPÉ **28.**

Promegalaspides Westergård 1939 see Asaphinae.

Prosaukia Ulrich & Resser 1933 referred to Saukiidae (Prosaukiinae) **subfam. n.** p. 215, HUPÉ **28.**

Prosaukia misa (Hall) 1863 with *P. halli* Ulrich & Resser 1933 in synonymy p. 567 pl. lxi fig. 1, *P. anomala* U. & R. p. 567 pl. lxi fig. 10, *P.* cf. *P. dubia* U. & R. p. 567 pl. lxi fig. 8, *P. longicornis* U. & R. p. 567 pl. lxi figs. 7, 9, *P. tuberculata* U. & R. discussed p. 567 pl. lxi figs. 2–4, *P. curvicostata* U. & R. p. 557, *P. ? ambigua* U. & R. p. 557, BERG **5.**

Prosaukiinae **subfam. n.** [Saukiidae] for *Prosaukia* Ulrich & Resser 1933, *Saukiella*, *Wedekindia* and *Pseudosaukia* p. 215, HUPÉ Traité de Paléontologie **3** 1953.

Prosopiscus Salter 1865 referred tentatively to Areiinae p. 238, HUPÉ **28.**

Prosymphysurus Poulsen 1927 referred to Glossopleurinae **subfam. n.** p. 185, HUPÉ **28.**

Protagraulos Matthew 1895 referred with query to Antatlasiidae p. 180, HUPÉ **28.**

Protapatokephalus Raymond 1937 retained as a subgenus of *Richardsonella* R. 1924, *P. arctostriatus* R. p. 49 pl. iv fig. 1 (line drawing), KOBAYASHI **40.**

Protemnites Whitehouse 1939 referred to Nepeidae p. 192, *P. elegans* W. text-fig. 9 (7) (line drawing), HUPÉ **28.**

Protillaenus Raymond 1937 a subjective synonym of *Blountia* (*Homodictya*) R. 1937, *Blountina* Lochman 1944 not accepted as being a subjective synonym of *P.* p. 886, LOCHMAN **48.**

Protoceratocephala error pro *Proceratocephala* p. 231, HUPÉ **28.**

Protolenidae R. & E. Richter 1948 discussed and divided into Bigotininae, Protoleninae **subfamm. n.**, Termierellinae, Myopsoleninae, and tentatively Strenuellinae **subfam. n.** p. 179; *Strettonia* may belong to Protolenidae p. 183 footnote, HUPÉ **28.**

Protolenidae R. & E. Richter 1948 emend. classified into Bigotininae, Strenuellinae, Protoleninae, and Termierellinae and Myopsoleninae **subfamm. n.** pp. 154, 211, HUPÉ **29.**

Protolenidae recorded from Australia p. 100, SINGLETON **69.**

Protoleninae Hupé 1952 [recte **subfam. n.**] [Protolenidae] for *Protolenus* Matthew 1892, *Lusatiops* R. & E. Richter 1941, *Blayacina* Cobbold 1931, *Coreolenus*, *Paratermierella*, *Matthewlenus* and *Hamatolenus* Hupé [nomina nuda] p. 180, HUPÉ Traité de Paléontologie **3** 1953.

Protoleninae nov. subfam. [Hupé 1953] discussed p. 213, see *Coreolenus*, *Paratermierella*, *Matthewlenus*, *Hamatolenus* **genn. n.**, and *Protolenus*, HUPÉ **29.**

Protolenus Matthew 1892 referred to Protoleninae **subfam. n.** p. 180, *P. elegans* M. text-fig. 118 (4); *P. schneiderí* R. & E. Richter 1941 type of *Rinconia* **gen. n.** p. 181, Hupé **28.**

Protolenus Matthew 1892 emend. restricted and subdivided into *P.* (*Protolenus*) M. 1895 emend., *P.* (*Bergeronia*) M. 1895 emend., *P.* (*Latoucheia*) **subgen. n.** for *P. latouchei* Cobbold 1910 p. 218, *P.* (*L.*) *latouchei* var. *tichkaensis* **var. n.** Cambrian (Lower) Morocco (Anti-Atlas) for *P. elegans* var. *l.* of Neltner 1938 (refigured) [referred to ? *Myopsolenus* p. 287] p. 241 pl. x fig. 19; *P. articephalus* Matthew 1895 type of *Matthewlenus* **gen. n.** p. 219, *P. coreanicus* Saito 1933 type of *Coreolenus* **gen. n.** p. 215; *P. elegans* var. *marocana* N. 1938 *partim* referred to *Hamatolenus continuus* **sp. n.** and var. p. 242, *P. e.* var. *m.* of Neltner & Poctey 1949 to *Myopsolenus magnus* **sp. n.** p. 241, *P.* cf. *latouchei* of N. & P. 1949 to *Antatlasia bourgini* **gen. et sp. n.** p. 208, Hupé Notes Serv. Min. Maroc No. 103 1953.

Protolenus recorded from same beds as *Paradoxides* p. 1170, Choubert & Hupé **11.**

Protolloydolithus ramsayi (Hicks) p. 179, Williams **84.**

Protopliomerops Kobayashi 1934 referred to Pliomeridae (Protopliomeropsinae) **subfam. n.** p. 237, Hupé **28.**

Protopliomerops Kobayashi 1934 possibly ancestral relations to *Cybelopsis*, *Pseudomera* and *Pseudocybele* p. 150 table 13, *P. aemula* **sp. n.** p. 206 pl. xxii figs. 9, 13–17, *P.* aff. *P. celsaora* Ross p. 207 pl. xxii fig. 10, *P.* aff. *P. contracta* R. p. 207 pl. xxii figs. 11, 18–20, *P. firmimarginis* **sp. n.** (possibly ancestral to *Pseudomera*) p. 208 pl. xxii figs. 1–8, *P.* ? *quattuor* **sp. n.** (possibly ancestral to *Kawina*) p. 209 pl. xxi figs. 9–14, *P.* sp. 6 p. 209 pl. xxii fig. 12, *P.* sp. 5 p. 210 pl. xxi fig. 5, *P.* sp. 4 p. 210 pl. xxi figs. 4, 8 Ordovician (Lower) U.S.A. (Utah), *P. superciliosa* R. listed p. 11, *P. celsaora* R. listed p. 12, Hintze Bull. Utah geol. min. Surv. **48** 1953.

Protopliomeropsinae [sic] **subfam. n.** [Pliomeridae] for *Protopliomerops* Kobayashi 1934, *Metapliomerops* K. and *Parapilekia* K. p. 237, Hupé Traité de Paléontologie **3** 1953.

Protostygina Prantl & Přibyl 1948 [recte 1949] considered of generic status p. 224, Hupé **28.**

Protypidae **fam. n.** [Corynexochoidae] for *Protypus* Walcott 1886 p. 185, Hupé Traité de Paléontologie **3** 1953.

Protypus Walcott 1886 referred to Protypidae **fam. n.**, *Bicaspis* Resser 1938 a synonym p. 185, *P. marginatus* Rasetti text-fig. 119 (4), Hupé **28.**

Proveedoria Lochman 1948 referred tentatively to Amecephalinae **subfam. n.** p. 192, Hupé **28.**

Prozacanthoides Resser 1937 referred to Zacanthoididae p. 183, Hupé **28.**

Pruvostina Hupé [nom. nud.] referred to Protolenidae (Termierellinae) p. 180, Hupé **28.**

Pruvostina **gen. n.** [Protolenidae (Termierellinae)] pp. 155, 222 for type *P. nicklesi* **sp. n.** [nom. nud. 1952] p. 222 pl. ix figs. 12, 13, 15, text-fig. 50, *P. bourgini* **sp. n.** p. 223 text-fig. 51 (line drawing) Cambrian (Lower) Morocco (Anti-Atlas), Hupé Notes Serv. Min. Maroc No. 103 1953.

Pruvostinoides Hupé [nom. nud.] referred to Strenuellinae **subfam. n.** p. 180, Hupé **28.**

Pruvostinoides **gen. n.** [nom. nud. 1952] [Protolenidae (? Strenuellinae)] pp. 155, 234 for type *P. angustilineatus* **sp. n.** p. 235 pl. ix figs. ?19, 20, text-fig. 57, *P.* cf. *a.* p. 67, ? *P.* sp. p. 53 Cambrian (Lower) Morocco (Anti-Atlas), Hupé Notes Serv. Min. Maroc No. 103 1953.

Psalikilopsis **gen. n.** [resembles *Psalikilus*] for type *P. cuspidicauda* **sp. n.** Ordovician (Lower) U.S.A. (Idaho) p. 639 pl. lxiii figs. 2–9, 12, *Psalikilus* ? sp. Ross 1951 [*partim* on p. 639] referred to *P.* as is tentatively cranidium of *Jeffersonia* ? sp. [B] Hintze 1953 p. 640, Ross J. Paleont. **27** 5 1953.

Psalikilus Ross 1951 referred to Hystricuridae **fam. n.** p. 198, Hupé **28.**

Psalikilus Ross 1951 discussed p. 211, *P. spinosum* **sp. n.** p. 212 pl. ix figs. 3, 6–7, *P. typicum* Ross (with pygidium of Ross 1951 pl. 30 figs. 11, 15 assigned) p. 213 pl. ix fig. 2, pl. xx fig. 15, *P. paraspinosum* **sp. n.** p. 213 pl. ix figs. 4–5, *P. pikum* **sp. n.** p. 214 pl. ix figs. 1 a–c Ordovician (Lower) U.S.A. (Utah), *P.* sp. listed p. 12, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Psalikilus ? sp. Ross 1951 [*partim* on p. 639] referred to *Psalikilopsis* **gen. n.** p. 640, ROSS **59.**

Psephosthenaspis **gen. n.** [Leiostegiidae] p. 673 for type *Bathyurus strenuus* Billings 1865 Ordovician Canada (Quebec) of which lectotype selected p. 674 pl. lxvii figs. 19–20, 24–25, 28–29, WHITTINGTON J. Paleont. **27** 5 1953.

Pseudagnostus Jaekel 1909 referred to Agnostidae [s. str.] p. 172, HUPÉ **28.**

Pseudagnostus araneavelatus Shaw 1951, *P. bilobus* S. 1951 p. 139, SHAW **65.**

Pseudagnostus josepha (Hall) p. 557, BERG **5.**

Pseudagnostus parabolicus Rusc. p. 7, RUSCONI **60.**

Pseudasaphus Schmidt 1904 see Asaphinae.

Pseudasaphus Fr. Schmidt 1904 discussed p. 417, *P. tecticaudatus* (Steinhardt) 1874 lectotype selected [whereabouts unknown] p. 419 pl. iii figs. 4, 5, *P. limatus* **sp. n.** Ordovician (Middle) Oslo with synonym *Asaphus* cfr. *undulatus* of Törnquist 1884 (refigured) p. 421 pl. iii figs. 6, 7, *P. aciculatus* (Angelin) 1854 (with synonyms *Asaphus undulatus* Steinhardt 1874 and *A. densistrius* T. 1884 [lectotype selected]) lectotype selected and figured p. 423 pl. iv figs. 1–7 text-fig. 5 (3); *P. d.* Wiman 1907 (*non* T.) referred to *P. t.* p. 423, JAANUSSON Ark. Min. **1** 14 1953.

Pseudasaphus ? sp. p. 74, STØRMER **73.**

Pseudatops Lake 1940 referred to Atopsidae **fam. n.** p. 194, *P. reticulatus* (Walcott) text-fig. 121 (7), HUPÉ **28.**

Pseudobasilicus Reed 1931 see Asaphinae.

Pseudobasilicus Reed 1930 [sic] discussed p. 443, following spp. referred *Ptychopyge laurowi*, *P. kuckersiana* Schmidt 1898, *P.* (*Basilicus*) *kegelensis* [nom. nud. 1898] S. 1904. tentatively *Asaphus nobilis* Barrande 1846, and *A. brachyrachis* Törnquist 1884 [as *P. ? b.*] lectotype chosen with synonyms *Ptychopyge rimulsior* Tullberg 1882 nom. nud. and *P. rimulosa* Pompecki [sic] 1890 et auctt. (*non* Angelin 1854) p. 446 pl. viii figs. 7–9, pl. ix figs. 1–3 text-figs. 5 (7), 14 (reconstruction), JAANUSSON **32.**

Pseudoclelandia aff. *P. fluxafissura* Ross p. 214 pl. iv fig. 14, *P.* sp. listed p. 9, HINTZE **24.**

Pseudocybele Ross 1951 considered intermediate between Pliomeridae and Cheiruridae p. 237, HUPÉ **28.**

Pseudocybele Ross 1951 expanded description based on complete test, *P. nasuta* R. p. 215 pl. xxiv figs. 8–11, *P. altinasuta* **sp. n.** p. 216 pl. xxiv figs. 1–2, *P. lemurei* **sp. n.** p. 217 pl. xxiv figs. 3–7 Ordovician (Lower) U.S.A. (Utah and Nevada), HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Pseudoeteraspis recorded p. 918, KOROLYUK **43.**

Pseudogygites Kobayashi 1934 see Asaphinae.

Pseudohystricurus orbus **sp. n.** Ordovician (Lower) U.S.A. (Idaho) including pygidium identical with Hintze 1952 [recte 1953] pl. 20 fig. 16 p. 640 pl. lxiii figs. 10, 11, 13–20, 23. ROSS J. Paleont. **27** 5 1953.

Pseudohystricurus sp. listed p. 10, HINTZE **24.**

Pseudokainella Harrington 1938 referred to Kainellinae **subfam. n.**, *P. keideli* H. 1938 p. 46 pl. iv fig. 3, *P. iwayai* **sp. n.** p. 46 pl. iii figs. 12–14, *P.* α sp. p. 47 pl. iii fig. 16, *P.* β sp. p. 47 pl. iii figs. 10–11 Ordovician (Lower) Korea, *P.* (*Parakainella*) **subgen. n** for type *Kainella lata* Kobayashi 1935 and *K. conica* K. 1935 p. 43, *Andesaspis argentinensis* K. 1935 *partim* [pygidium] referred to *P. l.* p. 57, *P.* γ sp. [undescr.] for *Apatokephalus* sp. K. 1934 p. 59. KOBAYASHI Japan. J. Geol. Geogr. **23** 3 1953.

Pseudokainella ? armatus **sp. n.** p. 218 pl. v figs. 1–5, *P. ?* sp. A. p. 219 pl. v figs. 6–9, *P. ?* sp. p. 7 Ordovician (Lower), U.S.A. (Utah & Nevada), HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Pseudolenus Hupé [nom. nud.] referred to Protolenidae (Termierellinae) p. 180, HUPÉ **28**.

Pseudolenus **gen. n.** [Protolenidae (Termierellinae)] pp. 155, 229 for type *P. carikoensis* **sp. n.** p. 230 pl. x fig. 14, text-fig. 53 (2), *P. draensis* **sp. n.** p. 230 pl. viii fig. 10, *P.* sp. p. 231 pl. viii fig. 5, pl. ix figs. 21–23, pl. x figs. 20–22 [non 19], *P.* sp. [young form attrib.] pl. x fig. 16 Cambrian (Lower) Morocco (Anti-Atlas); *Lusatiops ribotanus* R. & E. Richter 1948 *partim* [pl. i figs. 1–2] may belong to *Pseudolenus* p. 229, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Pseudolisania Kobayashi 1935 a subjective synonym of *Cheilocephalus* Berkey 1898 p. 887, LOCHMAN **48**.

Pseudomegalaspis **gen. n.** [Asaphidae] p. 451 for type *Megalaspis formosa* Törnquist 1884 Ordovician (Middle) Sweden (Dalarna) holotype refigured p. 452 pl. x figs. 2–7 text-fig. 5 (8), *P. patagiata* (T.) 1884 for *M. p.* T. lectotype selected and refigured p. 456 pl. ix figs. 4–7, pl. x fig. 1 text-fig. 5 (9), JAANUSSON Ark. Min. 1 14 1953.

Pseudomegalaspis patagiata p. 58, STORMER **73**.

Pseudomera Holliday 1942 referred to Pliomerinae emend. p. 237, HUPÉ **28**.

Pseudomera Holliday 1942 discussed with new description p. 219, pygidial differences from *Cybelopsis* considered possibly sexual p. 156, *P. barrandei* (Billings) 1865 discussed and forms from Utah etc. referred to *P.* cf. *b.* p. 221, *P.* cf. *P. insolita* (Poulsen) 1927 from Utah and Nevada p. 222 pl. xxiii figs. 5–13, *P. kanoshensis* **sp. n.** p. 223 pl. xxiii figs. 1–4 Ordovician (Middle) U.S.A. (Utah), *P. dactylifera* (Poulsen) 1927 and possibly *Pliomera mathesii* Angelin 1854 also referred to *P.* p. 220, *Amphion nevadensis* Walcott (assigned to *P.* by Holliday) indeterminate p. 221, *P.* sp. indet. listed p. 19, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Pseudonileus **gen. n.** [no family assigned, believed ancestral to *Paranileus* Hintze] p. 223 for type *P. willdeni* **sp. n.** Ordovician (Lower) U.S.A. (Utah) p. 224 pl. xv figs. 14–17, *Asaphus pelops* Billings 1865 tentatively referred to *P.*, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Pseudoolenoides **gen. n.** [no family assigned, similar to *Tasmanocephalus*] p. 226 for type *P. dilectus* **sp. n.** including in synonymy "*Symphysurus ? goldfussi*" of Ross 1951 p. 228 pl. xxvii figs. 1–6, *P. acicaudus* **sp. n.** p. 229 pl. xxvii figs. 7–11 Ordovician (Middle) U.S.A. (Utah); *S. goldfussi* Walcott 1884 type stated to be lost, but sp. probably referable to *P.* p. 226, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Pseudopetigurus Prantl & Přibyl 1948 [recte 1949] referred to Heterocaryoninae **subfam. n.** p. 195, HUPÉ **28**.

Pseudopetigurus Prantl and Přibyl 1949 considered to be not a bathyurid p. 650, WHITTINGTON **81**.

Pseudophillipsia Gemmellaro 1892 referred to Anisopyginae **subfam. n.** p. 220, HUPÉ **28**.

Pseudoptychoparia Ting 1936 a synonym of *Yunnanocephalus* Kobayashi 1936 [quod vide] p. 188, HUPÉ **28**.

Pseudoptychoparia Ting 1936 a synonym of *Yunnanocephalus* Kobayashi 1936 p. 140, *P. reedi* Lu 1941 type of *Luaspis* **gen. n.** p. 158, HUPÉ **29**.

Pseudosalteria Raymond 1924 referred to Utiadae p. 200, HUPÉ **28**.

Pseudosaukia Rasetti 1944 referred to Prosaukiinae **subfam. n.** p. 215, HUPÉ **28**.

Pseudosaukia Kobayashi 1952 [so dated] *non* Rasetti 1944 renamed *Jeholaspis* **nom. n.** p. 88, KOBAYASHI **41**.

Pseudosaukia sesostris (Billings) 1865, *P.* sp. p. 140, SHAW **65**.

Pseudosaukiinda Hupé [nom. nud.] referred to Latiredlichiidae p. 179, HUPÉ **28**.

Pseudosaukiandia **gen. n.** [nom. nud. 1952 ,Latredichilidae] pp. 152, 196 for type *P. laia* **sp. n.** p. 198 pl. viii figs. 6, 7, pl. ix fig. 4, text-fig. 36 (19) line drawing, *P.? spinifera* **sp. n.** p. 198 pl. ix fig. 3 Cambrian (Lower) Morocco (Anti-Atlas), Hupé Notes Serv. Min. Maroc No. 103 1953.

Pseudoscienopleura Sun 1935 referred to Punctularindae p. 199, *P. kozai* Kobayashi text-fig 122 (5), Hupé **28.**

Pseudospharexochus Schmidt 1881 relations to *Kouvo* [quod vide]p. 176, Hintze **24.**

Psilaspis Resser & Endo 1937 referred to Anomocarellidae **fam. n.** p. 189, Hupé **28.**

Psilocephalus Salter may belong to Nileidae p. 222 footnote, Hupé **28.**

Ptarmigania Raymond 1928 referred to Bathyuriscinae **subfam. n.** p. 184, Hupé **28.**

Ptarmigania-series of Bathyuriscinae **subfam. n.** [quod vide] p. 184, Hupé **28.**

Ptarmigania bispinosa Lochman 1952 possesses diagnostic character of *Ptarmiganoides* Rasetti 1951 [quod vide] p. 486, Lochman **47.**

Ptarmiganoides Rasetti 1951 referred to Ptarmigania-series of Bathyuriscinae **subfam. n.** p. 185, Hupé **28.**

Ptarmiganoides Rasetti 1951 considered possibly only a subgenus of *Ptarmigania*, *Ptarmigania bispinosa* Lochman 1952 possesses diagnostic character of *Ptarmiganoides* p. 486, Lochman **47.**

Ptenocephalus Roemer 1849 referred to Anomocaridae p. 242, *P. superstabilis* R. text-fig. 126 (1), Hupé **28.**

Ptenocephalus? rudicornis for *Dactylocephalus m.* Hall & Whitfield 1877, p. 58, Kobayashi **40.**

Ptenocephalina Resser 1938 referred to Anomocaridae p. 212, Hupé **28.**

Ptenoparia Richter 1913 referred to Cyrtosymbolidae (Pteroparinae) **fam. et subfam. n.** p. 219, *P. eximia* R. text-fig. 9 (2) line drawing, Hupé **28.**

Pteroparia R. & E. Richter (but with eyes) recorded from Australia p. 100, Singleton **69.**

Pteroparinae **subfam. n.** [Cyrtosymbolidae] for *Pteroparia* Richter 1913 p. 219, Hupé Traité de Paléontologie **3** 1953.

Pterygometopus cf. *exilis* (Eichw.) p. 416, Jaanusson **32.**

Pterygometopus cf. *exilis* p. 497, Jaanusson **33.**

Pterygometopus kuckersiana p. 104, *P.* sp. p. 65, Strömer **73.**

Pterygometopus spp. Butts 1941 referred to *Calliops* Burm., *C. mesieri* **spp. n.** and *C. strasburgensis* Ulrich & Delo [quae vide], Cooper **12.**

Ptychaspidae Raymond 1924 referred to Ptychaspidoidae, taken to include *Ptychaspis*, *Fengshania*, *Quadraticephalus* and ? *Changia* p. 215, Hupé **28.**

Ptychaspidae Raymond 1924 considered a separate family, generic relations discussed p. 892, Lochman **49.**

Ptychaspidoidae **superfam. n.** to include Conocephalinidae, Saukiidae, ? Shumardiidae, Euptychaspidae and Ptychaspidae p. 213, Hupé Traité de Paléontologie **3** 1953.

Ptychaspis Hall 1863—*Asioptychaspis* Kobayashi 1935 a synonym p. 215, Hupé **28.**

Ptychaspis Hall 1863—*Asioptychaspis* Kobayashi 1935 and *Fengshania* Sun 1935 subjective synonyms p. 888, Lochman **48.**

Ptychaspis miniscuensis (Owen), *P. tuberosa* Feniak p. 557, *P.* cf. *P. m.* p. 559, Berg **5.**

Ptychaspis (*Fengshania*) see *Fengshania*

Ptychometopus Schmidt 1894 referred to Calymenidae p. 232, Hupé **28.**

Ptycheparella Poulsen 1927 referred to Ptychoparinae p. 193, Hupé **28.**

Ptychoparia Corda—relations to *Solenopleura* Angelin discussed p. 8, *P. linnarssoni* Matthew 1888 (*non* Brögger 1878) referred to cf. *Parasolenopleura spinigera* **gen. et sp. n.** pp. 26, 29, Westergård **79.**

Ptychoparia attleborensis Cobbold of Neltner & Poctey 1949 may be *Hebediscus a.* (Shaler & Foerste) or *H. cobboldi* Resser 1937 p. 113, *P. ? annio* C. type of *Angusteva* **gen. n.** p. 114, *P. tenuicaudata* Resser & Endo 1937 probably referable to *Proasaphiscus* p. 260, *P. yunnanensis* Mansuy see *Yunnanocephalus*, HUPÉ **29.**

" *Ptychoparia* " aff. " *P.*" *clusia* Walcott revised assignment of *Kochaspis* aff. *K. celer* (Walcott) of Lochman 1952 p. 486, LOCHMAN **47.**

Ptychoparia striata Emmrich text-fig. 1, HUPÉ **28.**

Ptychopariidae Matthew 1887 subdivided into Ptychopariinae, and Howellaspinae, Elrathiellinae, Clappaspinae & Iraniinae **subfamm. n.** p. 193, HUPÉ **28.**

Ptychopariinae (Matthew 1887 emend.) taken to include *Ptychoparia, Ptychoparella, Ehmaniella, Ehmania, Pachyaspis* and *Elrathia* p. 193, HUPÉ **28.**

Ptychoparioidae (Richter 1932 emend.) term preferred to Conocoryphoidae which has priority, taken to include Alokistocaridae, Nepeidae, Antagmidae, Elrathinidae, Ptychopariidae, Saoidae, Conocoryphidae and Atopsidae p. 189, HUPÉ **28.**

Ptychoparioides Růžička 1939 referred tentatively to Elrathiellinae **subfam. n.** p. 193, HUPÉ **28.**

Ptychoparopsis **gen. n.** [Alokistocaridae] p. 258 for type *P. issafenensis* **sp. n.** p. 259 pl. ix fig. 7 Cambrian (? Lower) Morocco, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Ptychopyge Angelin 1854 see Asaphinae.

Ptychopyge glabrata Angelin 1854 referred to *Asaphus* (*Neoasaphus*) **subgen. n.** p. 398, *P.* n. sp. Tullberg 1882 referred to synonymy of *Ogmasaphus costatus* **gen. et sp. n.** p. 433, *P. rimulsior* T. 1882 nom. nud. and *P. rimulosa* Pompecki 1890 et auctt. (*non* A.) referred to synonymy of *Pseudobasilicus ? brachyrachis* (Törnquist) 1884 p. 446, *P. rimulosa* A. 1854 original material not found and sp. considered nom. dub. p. 450, JAANUSSON **32.**

Ptyocephalus Whittington see *Kirkella.*

Ptyocephalus Whittington 1948 accepted as a synonym of *Kirkella* Kobayashi 1942, pygidium text-fig. 18 (6), HUPÉ **28.**

Punctularia Raymond 1937 a subjective synonym of *Aposolenopleura* R. 1937, *P. quebecensis* **sp. n.** Cambrian (Upper) Canada (Quebec) **nom. n.** for *P. brevifrons* Rasetti 1945 homonym of *A. ? b.* Rasetti 1944 p. 888, LOCHMAN J. Paleont. **27** 6 1953.

Punctularia ? recorded p. 140, SHAW **65.**

Punctulariidae Raymond 1937 referred to Solenopleuroidae and taken to include *Pseudosolenopleura, Punctularia, Onchonotus, Ischyrotoma, ? Bayfieldia, Bellaspis* and *Bellaspidella* p. 199, HUPÉ **28.**

Pyraustocrania [recte *Pyraustocranium*] Ross 1951 referred to Törnquistiidae **fam. n.** p. 198, HUPÉ **28.**

Quadragnostus Howell 1935 referred to Spinagnostidae p. 174, HUPÉ **28.**

Quadraticephalus Sun 1924 discussed, *Changia* Sun 1924 considered not a synonym, Resser's 1942 reference of the genotype of *Fengshania* Sun 1935 to *Q.* not accepted p. 888, LOCHMAN **48.**

Raaschella Lochman 1938 referred to Talbotinidae **fam. n.** p. 197, HUPÉ **28.**

Rananasus Cullison 1944 discussed and referred to Bathyuridae p. 657, WHITTINGTON **81.**

Raphiophoridae Angelin 1854 referred to Trinucleoidae p. 242, HUPÉ **28.**

Rasettia **gen. n.** (**nom. n.** for *Platycolpus* Raymond 1913 *non* Donald 1900) p. 886, LOCHMAN J. Paleont. **27** 6 1953.

Rasettia Lochman 1953 referred to Lecanopygidae **fam. n.** p. 889, LOCHMAN **49.**

Rawops **subgen. n.** see *Resserops.*

Raymondella Reed 1935 (*Reedaspis* Přibyl 1948) referred tentatively to Endymioniidae p. 242, HUPÉ **28.**

Raymondinidae Clark 1924 with synonyms Avonindae Lochman 1936 and Cephalonenidae Raymond 1937 referred to Solenopleuridae, and taken to include *Raymondina*, *Acheilus*, *Avonina*, *Denisia*, ? *Hallaspis*, *Acheilogs*, *Stenochilina*, *Catillicephala* and ? *Triarthropsis* p. 199, Hupé 28.

Raymondininae Clark 1924 emend. considered subfamily of Cedariidae including *Raymondina* C. 1924, *Amquia* Rasetti 1946, *Brassicicephalus* Lochman 1940, *Llanoaspidella* Tasch 1951 and *Paracedaria* Duncan 1949 p. 891, Lochman 49.

Raymondites Sinclair 1944 considered a separate genus not a subgenus of *Bathyurus*, *R. ingalli* (Raymond) 1913 p. 654 pl. lxix figs. 16–21, *R. longispinus* (Walcott) 1876 holotype refigured p. 654 pl. lxv figs. 10, 14–16, 19, pl. lxix fig. 29, text-fig. 1a (reconstruction), *R. bucculer* S. 1944, *R. spiniger* (Hall) 1847, *R. trispinous* [sic] (Wilson) 1947 and *R. schucherti* (Clarke) 1897 discussed p. 655, *R.* sp. pl. lxix fig. 22, Whittington 81.

Raymondites cf. *R. spiniger* (Hall) p. 847, *R.* sp. p. 845, Sinclair 68.

Redlichaspis Kobayashi 1935 referred to Redlichiinae subfam. n. p. 177, Hupé 28.

Redlichia Cossmann 1902 referred to Redlichiinae subfam. n. p. 177. *R. mansuyi* Mansuy text-fig. 118 (1), *R. yunnanensis* Resser & Endo text-fig. 9 (3) line drawing; *R. mansuyi* R. & E. type of *Pararedlichia* gen. nondescr. p. 177, Hupé 28.

Redlichia mansuyi Resser & Endo and *R. carinata* Mansuy referred to *Pararedlichia* gen. n. p. 163; *R. walcotti* Mansuy 1912 (which is considered not a distorted form of *R. yunnanensis* R. & E.) type of *Saukiandops* gen. n. p. 193, *R.* cf. *walcotti* Saito 1934 *non* M. referred to *Lotaulaspis* nom. gen. et sp. n. p. 194 and footnote, *R. walcotti* Lu 1941 *non* M. referred to *Anchiaspis lui* gen. et sp. n. p. 194, *R. granulosa* Lu 1941 type of *Kuanyangia* gen. n. p. 195, *R.* ? sp. Kobayashi 1944 may be conspecific with *Bigotina brevicia* Cobbold p. 212, *R.* cf. *mikawaensis* of Hupé & Abadie 1950 referred to *Resserops* and *Marsaisia* genn. n. p. 167, Hupé 29.

Redlichiidae see Redlichiinae and Pararedlichiinae subfamm. n.

Redlichiidae Poulsen 1927 referred to Redlichiidea. classified into Redlichiinae and Pararedlichiinae [quæ vide] p. 177, Hupé 28.

Redlichiidea Richter 1932 emend. referred to Redlichioidae [quod vide for constituent families] p. 177, Hupé 28.

Redlichiinae Hupé 1952 [recte subfam. n.] [Redlichiidae] for *Redlichia* Cossmann 1902, *Redlichaspis* Kobayashi 1935 and *Mesodema* Whitehouse 1939 p. 177, Hupé Traité de Paléontologie 3 1953.

Redlichina Lermontova 1940 referred to Abadiellidae fam. n. pp. 153, 205, *R. vologdini* L. text-fig. 45(1), Hupé 29.

Redlichioidae Richter *p. p.* classified into two groups (i) Redlichiidea R. 1932 emend. including Redlichiidae, Neoredlichiidae, (provisionally Yinitidae), Latiredlichiidae, Saukiandidae, Dolerolenidae, Abadiellidae, Bathynotidae, Metadoxididae, Protolenidae, Antatlasiidae; (ii) Ellipsocephalidea R. 1932 emend. including Ellipsocephalidae, Palaeolenidae, Paradoxididae, Hicksiidae p. 176, Hupé 28.

Redlichioidae discussed and classified [see above] p. 145, Hupé 29.

Redlichops R. & E. Richter 1941 referred tentatively to Neoredlichiidae fam. n. p. 177, Hupé 28.

Reedaspis see *Raymondella*.

Reedolithus carinatus text-fig. 74 (2), Holtedahl 25.

Reedolithus carinatus p. 62, Størmer 73.

Reedolithus quebecensis sp. n. [nondescr. 1951] Ordovician (Middle) Canada (Quebec) p. 93 text-figs. 2–16, Stäuble Nat. canad. 80 3–4 1953.

Remopleuridella [recte *Remopleurididella*] Ross 1951 referred to Remopleurididae p. 210, Hupé 28.

Remopleurides burmeisteri Bancroft p. 242, Whittard *in* Whittard et al. 80.

Remopleurides giganteus sp. nov. [nom. nud.], *R.* cf. *pisiformis* Web. p. 1044, KOROLEVA **42.**

Remopleurides lateri-spirifer [sic] from Ireland line drawing text-fig. 11 (4), CHARLESWORTH **9.**

Remopleurides sexlineatus (Ang.) p. 131 text-figs. 6 a-c, LINDSTRÖM **46.**

Remopleurides aff. *R. striatulus* Walcott, *R.* aff. *R. linguatus* Ruedemann p. 852, SINCLAIR **68.**

Remopleurides sp. p. 102, JAANUSSON **31.**

Remopleurides sp. p. 188, JAANUSSON & MARTNA **34.**

Remopleurides sp. p. 83, STØRMER **5**

Remopleurididae Hawle & Corda 1847 referred to Olenoidae **superfam. n.** and taken to include *Apatokephaloides*, *Menoparia*, *Scinocephalus*, *Apatokephalus*, *Diplapatokephalus*, *Robergia*, *Remopleurides*, *Remopleuridella*, *Caphyra* and *Teratorhynchus* p. 210, HUPÉ **28.**

Remopleurididae see *Eorobergia* **gen. n.**

Remopleuridiella caudalimbata Ross p. 229 pl. v figs. 10–12, HINTZE **24.**

Resseraspis Rasetti 1945 referred to Elviniinae p. 206, HUPÉ **28.**

Resseraspis Rasetti 1945 referred to Lecanopygidae **fam. n.** p. 889, LOCHMAN **49.**

Resserops R. & E. Richter 1940 referred to Neoredlichiidae **fam. n.** p. 177, *R. falloti* Hupé [nom. nud.] text-fig. 118 (2), HUPÉ **28.**

Resserops R. & E. Richter 1940 emend. discussed with new diagnosis, referred to Neoredlichiidae p. 170, *R.* (*Resserops*) *resserianus* R. & E. R. new reconstruction of cephalon text-fig. 40 (1), not found in Morocco p. 172 [see below], *R.* (*R.*) *brevilimbatus* **sp. n.** [nom. nud. 1952] p. 175 pl. v fig. 24, pl. vii fig. 13, text-fig. 40 (2) line drawing, *R.* (*R ?*) *amouslekensis* **sp. n.** [referred to *Richterops* p. 59] p. 175 text-fig. 40 (3); *R.* (*Richterops*) **subgen. n.** p. 173 for type *R.* (*R.*) *falloti* **sp. n.** [nom. nud. 1952] p. 176 pl. v fig. 21, pl. vi figs. 1, 3, 7, pl. ix fig. 9 [attrib.], pl. xi fig. 26, text-figs. 36 (6), 39 (reconstruction), 40 (6), *R.* (*R.*) *latilimbatus* **sp. n.** p. 176 text-fig. 40 (4), *R.* (*R.*) *bourgini* **sp. n.** p. 176 text-fig. 40 (5), *R.* (*R.*) *uncioculatus* **sp. n.** [nom. nud. 1952] p. 177 pl. v figs. ? 19, ? 22 [pygidia attributed], 18, pl. vi fig. 5 text-figs. 36 (7), 40 (7), *R.* (*R.*) *rudemmae* **sp. n.** [nom. nud. 1952] for *R. resserianius* of Neltner & Poctey 1949 (refigured) p. 177 pl. vi fig. 2, *R.* (*R.*) *ouijjanensis* **sp. n.** p. 178 text-fig. 40 (8), *R.* (*R.*) *acutus* **sp. n.** p. 179 text-fig. 40 (9); *R.* (*Rawops*) **subgen. n.** p. 173 for type *R.* (*R.*) *dubius* **sp. n.** p. 179 text-fig. 41 (2) Cambrian (Lower) Morocco (Anti-Atlas), *R.* sp. p. 60, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Richardsonella Raymond 1924 discussed p. 48, *R.* (*Protapatokephalus*) R. 1937 so referred, *P. arctostriatus* R. p. 49 pl. iv fig. 1 (line drawing), *R.* (*Hukasawaia*) **subgen. n.** p. 49 for type *R.* (*H.*) *cylindrica* **sp. n.** Ordovician (Lower) Korea p. 50 pl. iii fig. 15, KOBAYASHI Japan. J. Geol. Geogr. **23** 3 1953.

Richardsonella megalops Billings, *R. unisulcata* Rasetti text-fig. 125 (3), HUPÉ **28.**

Richardsonella sp. and *R.* ? recorded p. 140, SHAW **65.**

Richardsonellidae Raymond 1924 referred to Olenoidae **superfam. n.**, Kainellidae Ulrich & Resser 1930 a synonym, taken to include ? *Loganellus*, *Levisella*, *Richardsonella*, *Kainella* and ? *Andrarina* p. 206, HUPÉ **28.**

Richardsonellinae Raymond 1924 referred as a subfamily to Kainellidae Ulrich & Resser 1930 and considered to include *Richardsonella* R. 1924 [quod vide], *Menoparia* Ross 1951 and tentatively *Kolpura* Endo & Resser 1937 p. 48, KOBAYASHI **40.**

Richterops **subgen. n.** see *Resserops*.

Rimouskia Resser 1938 referred to Saoidae **fam. n.** p. 193, HUPÉ **28.**

Rinconia Hupé 1952 [recte **gen. n.**] [Ellipsocephalidae (Aldoniinae)] for type *Protolenus schneideri* R. & E. Richter 1941 Cambrian (Lower) Spain p. 181, HUPÉ Traité de Paléontologie **3** 1953.

Rinconia nov. [Hupé 1953] p. 157, HUPÉ **29.**

Robergia — *Apatokephalus* sp. indet. Reed 1903 tentatively referred p. 52, KOBAYASHI **40**.

Robergia athenia Butts holotype refigured p. 22 pl. xii figs. 10–14, *R. major* Raymond with synonym *R.* sp. R. 1920 p. 22 pl. viii figs. 7–11, *R. deckeri* **sp. n.** including *R. a.* Decker 1933 (*non* B.) Ordovician (Middle) U.S.A. (Oklahoma) p. 23 pl. ii figs. 1–6, pl. xix figs. 1–2; *R. marginalis* R. type of *Eorobergia* **gen. n.** p. 21, COOPER Mem. geol. Soc. Amer. No. 55 1953.

Robergia microphthalma p. 58, STØRMER **73**.

Rowia Deiss 1939 referred to Elrathiellinae **subfam. n.** p. 193, HUPÉ **28**.

Růžičkaia Přibyl 1950 [recte 1951] referred to Conokephalinidae p. 214, HUPÉ **28**.

Salteria Thomson 1864 referred to Endymioniidae p. 242, HUPÉ **28**.

Salteria americana **sp. n.** Ordovician (Middle) U.S.A. (Virginia) p. 12 pl. iii figs. 8–10, *S. oderi* Ulrich 1930 declared nom. nud. p. 13, COOPER Mem. geol. Soc. Amer. No. 55 1953.

Salterolithus smeathenensis Bancroft p. 243, WHITTARD *in* WHITTARD ET AL. **80**.

Sao Barrande 1852 referred to Saoidae **fam. n.** p. 193, *S. hirsuta* B. text-fig. 121 (5), HUPÉ **28**.

Saoidae **fam. n.** [Ptychoparioidae] for *Rimouskia*, *Sao* and *Pardailhania* p. 193, HUPÉ Traité de Paléontologie **3** 1953.

Saratogia Walcott 1916 referred to Parasolenopleuridae **fam. n.** p. 189, *S. latifrons* King 1937 type of *Iranella* Hupé **gen. nondescr.**, HUPÉ **28**.

Šárkia Klouček 1916 see Šarkiaiidae **fam. n.**

Šarkiaiidae [sic] **fam. n.** [Trinucleoidae] for *Šárkia* Klouček 1916 emend. Prantl & Přibyl 1948 [recte 1949] p. 241, HUPÉ Traité de Paléontologie **3** 1953.

Sauikoides **gen. n.** error pro *Saukioides* **gen. n.** Kobayashi 1952, Z.R. **90** for 1952 11 1955 p. 44.

Saukia lodensis (Whitfield) text-fig. 127, HUPÉ **28**.

Saukianda R. & E. Richter 1940 referred to Saukiandidae **fam. n.** p. 179, HUPÉ **28**.

Saukianda R. & E. Richter 1940 discussed with diagnosis p. 198, *S. andalusiae* R. & E. R. may be heterogeneous p. 201, *S.* cf. *andalusiae* from Morocco with possible synonym *Callavia termieri* Neltner & Poctey 1949 *partim* [pl. 1 fig. 1] p. 201 pl. ix fig. 2, HUPÉ **29**.

Saukiandidae Hupé 1952 [recte **fam. n.**] for *Saukianda* R. & E. Richter 1940 and *Longianda* Hupé [nom. nud.] p. 179, HUPÉ Traité de Paléontologie **3** 1953.

Saukiandidae nov. fam. [Hupé 1953] [Redlichioidae] pp. 152, 198 for *Saukianda* R. & E. Richter and *Longianda* **gen. n.**, HUPÉ **29**.

Saukiandops Hupé [nom. nud.] referred to Latiredlichiidae p. 179, HUPÉ **28**.

Saukiandops **gen. n.** [Latiredlichiidae] for type *Redlichia walcotti* Mansuy 1912 Cambrian (Lower) Yunnan pp. 151, 193 pl. viii fig. 5, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Saukiella Ulrich & Resser 1933 referred to Prosaukiinae **subfam. n.** p. 215, HUPÉ **28**.

Saukiella pepinensis occurrence discussed p. 735, NELSON **51**.

Saukiella sp. p. 911, BASS & NORTHROP **4**.

Saukiidae (Ulrich & Resser 1933) referred to Ptychaspidoidae **superfam. n.** and divided into Prosaukiinae **subfam. n.** and Saukiinae p. 214, HUPÉ **28**.

Saukiinae Ulrich & Resser 1933 emend. taken to include *Lichengia*, *Iranaspis*, *Tellerina*, *Saukia*, *Calvinella* and *Sinosaukia* p. 215, HUPÉ **28**.

Scharyia Přibyl 1946 referred to Eodrevermanniinae **subfam. n.** p. 217, HUPÉ **28**.

Schizoproetus celechovicensis (Smycka) text-fig. 128 (4), HUPÉ **28**.

Schmalenseeia acutangulata Wgård listed p. 40, WESTERGÅRD **79**.

Schmalenseia [sic] *amphionura* Moberg text-fig. 9 (13), HUPÉ **28**.

Schmidtaspis Kobayashi 1944 a subjective synonym of *Dartonaspis* Miller 1936 p. 887, LOCHMAN **48.**

Scinocephalus Ross 1951 referred to Remopleurididae p. 210, HUPÉ **28.**

Scinocephalus Ross 1951 referred to Kainellidae (Apatokephalinae) p. 54, *S. solitecti* R. pl. iv fig. 8 (line drawing), KOBAYASHI **40.**

Scinocephalus ? quadrihastatus **sp. n.** Ordovician (Lower) U.S.A. (Idaho) p. 637 pl. lxii figs. 21, 25, ROSS J. Paleont. 27 5 1953.

Sculptoproetus Erben 1951 considered a subgenus of *Cornuproetus* R. & E. Richter 1919 p. 598, PILLET **54.**

Scutellidae R. & E. Richter 1925 referred to Scutelloidae **superfam n.**, Eobronteidae Sinclair 1949 a synonym p. 225, HUPÉ **28.**

Scutellidae removed from Corynexochoidae to Illaenicae **superfam. n.** p. 649, WHITTINGTON **81.**

Scutelloidae **superfam. n.** for Styginidae, Theamataspidae **fam. n.**, Phillipsinellidae, Scutellidae, Illaenidae p. 224, HUPÉ Traité de Paléontologie **3** 1953 [April].

Scutellum paliferum (Barrande) text-fig. 131, *S. polyactin* Angelin (hypostome) text-figs. 6A–B; *S. palifer, S. rhinoceros, S. furcifer* showing development of fixigenal spine text-figs. 67A, B, C, *S. flabelliferum* pathological pygidium text-fig. 89, HUPÉ **28.**

Scutellum sp. nov. ? [undescr.] p. 20, ADAMS & COWIE **1.**

Scutellum sp. p. 151, GLINSKI **22.**

Scutellum comparable spp. in L. Devonian of Australasia and N. Africa p. 91, GILL **21.**

Seleneceme Clark 1924 referred tentatively to Endymionidae p. 242, HUPÉ **28.**

Semiproetus Reed 1943 considered an independent genus p. 227, PŘIBYL **55.**

Serrodiscus see *Paradiscus.*

Serrodiscus R. & E. Richter 1941 discussed with emended diagnosis, referred to Eodiscinae, *S. coloi* **sp.n.** [nom. nud. 1952 when referred to *Parodiscus*] Cambrian (Lower) Morocco (Anti-Atlas) p. 110 text-fig. 13 (2), *S.* cf. *speciosus* (Ford) see *Paradiscus*, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Serrodiscus [*Eodiscus*] *bellimarginatus* (Shaler & Foerste) p. 237, STUBBLEFIELD *in* WHITTARD ET AL. **80.**

Sevillia Weller 1936 referred to Ditomopyginae **subfam. n.** p. 219, HUPÉ **28.**

Shirakiella Kobayashi 1935 see Shirakiellidae **fam. n.**

Shirakiellidae **fam. n.** [? Ptychaspidoidae] for *Shirakiella* Kobayashi 1935 p. 215, HUPÉ Traité de Paléontologie **3** 1953.

Shumardia orientalis Mansuy type of *Eoshumardia* **gen. nondescr.** p. 242, HUPÉ **28.**

Shumardiidae Lake 1907 emend. referred to Trinucleoidae, and taken to include *Shumardia* Billings, *Hospes* Stubblefield, *Koldinioidia* Kobayashi, *Idiomesus* Raymond, *Anisonotella* Whittington and *Eoshumardia* **gen. nondescr.** p. 241, HUPÉ **28.**

Sneedvillia Resser 1938 referred tentatively to Anomocaridae p. 212, HUPÉ **28.**

Sneedvillia Resser 1938 a subjective synonym of *Crepicephalus* Owen 1852 p. 887, LOCHMAN **48.**

Solenoparia Kobayashi 1935 referred to Solenopariidae **fam. n.** p. 195, *S. toxea* Walcott text-fig. 122 (2), HUPÉ **28.**

Solenopariidae **fam. n.** [Solenopleuroidae] to include *Metisia, Perneria, Solenoparia, Albansia, Yabeia, Aojia, ? Onchonotopsis, Camaraspoides, Dellea, Bernia, Apachia, Kiowaia* and *Cryptoderaspis* p. 195, HUPÉ Traité de Paléontologie **3** 1953.

Solenopleura Angelin 1854 referred to Solenopleurinae **subfam. n.** p. 195, *S. holometopa* A. text-fig. 122 (1), HUPÉ **28.**

Sphaeroglossus Angelin 1854 discussed, specimen drawn to Miller's 1889 selection of *S. conicephalus* A. 1851) as type p. 7, *Asthenopsis* Whitehouse 1939 provisionally considered distinct, relations of *S.* to *Pygidiopsis* Cordis and *Parasolenopleura* gen. n. p. 10, *S. mansfeldi* Strand 1929 p. 11 pl. ii figs. 6–10, *S. ponos* Linnarsson 1879 *partim* [non pl. i fig. 2b, assigned to *S. m.*] holotype redrawn p. 12 pl. ii figs. 11–18, *S. brevicornis* Cromwell 1962 record of Cobbold 1934 considered uncertain p. 13 pl. iii figs. 1–3, *S. holometopus* A. 1851 lectotype figured p. 14 pl. iv figs. 1–8, *S. b. humilis* subsp. n. p. 16 pl. iv figs. 9 a-c, *S. curvifrons* sp. n. Cambrian (Middle) Sweden (Scania) including *S. acadica* *olympus* Cromwell 1962 and ? Cobbold 1934 *non* Matthew p. 17 pl. iv figs. 10 a-d, *S. brevicephalus* (A. 1851) lectotype figured p. 18 pl. iii figs. 4–10, *S. b. obtusus* Brögg listed p. 40, *S. b. minus* G considered specifically distinct p. 19, *S. conicephalus* (A. 1851) lectotype selected and figured p. 19 pl. v figs. 1–5; *S. cristata* L. 1877 referred to *Parasolenopleura* p. 22, WESTERGÅRD Sverig. geol. Unders. Afh. [C] No. 526 1953.

"*Solenopleura*" *franklinensis* Howell 1937, "*S.*" *vermontensis* H. 1937 p. 141, SHAW 65.

Solenopleurella Poulsen 1927 referred to Eteratkinidae [Solenopleurellinae] fam. et subfam. n. p. 193, HUPÉ 28.

Solenopleurellinae subfam. n. [Eteratkinidae fam. n.] for *Solenopleurella*, *Spinaspis* and *Stenoblepharus* p. 193, HUPÉ Traité de Paléontologie 3 1953.

Solenopleurinae Angelin 1854 emend. subdivided into Solenopleurinae, Menocephalinae and tentatively Heterocaryonnae subfamm. n. [quæ vide] p. 195, HUPÉ 28.

Solenopleurinae subfam. n. [Solenopleuridae] for *Solenopleura*, *Asthenopsis*, *Solenoplevrops*, *Deiteria*, *Agnostoniopsis* and *Onchopeltis* p. 195, HUPÉ Traité de Paléontologie 3 1953.

Solenopleuroidae superfam. n. to include Solenoparidae, Solenopleuridae, Aerocephalitidae, Lonchocephalidae, Telbotmidae, Burmeidae, Glyptometopidae, Hystricurididae, Tomagnostidae, Dimeropygidae, Esthyuridae, Ceratocephalidae, Pemerlaurididae and Raymondinidae [quæ vide] p. 194, HUPÉ Traité de Paléontologie 3 1953.

Solenopleuropsis Thorsl 1947 referred to Solenopleurinae subfam. n. p. 195, HUPÉ 28.

Scutellella Lochman 1948 referred tentatively to Aloistrocerinae subfam. n. p. 192, or to Antagmidae fam. n. p. 192, HUPÉ 28.

Spencia Resser 1939 referred to Solenopleurellinae subfam. n. p. 193, HUPÉ 28.

Sphaeragnostidae Kobayashi 1939 accepted p. 172, HUPÉ 28.

Sphaerexochinae [misspelt Sphaeroxochinae] Öpik 1937 accepted for *Sphaerexochus* p. 238, HUPÉ 28.

Sphaerexochus consuoides sp. nov. [nom. nud.] *S. bicornis* Warb. p. 1044, KOROLEVA 42.

Sphaerocoryphe Angelin 1854 referred to Cyrtometopinae p. 238, HUPÉ 28.

Sphaerocoryphe carinae sp. n. Ordovician (Upper) Sweden (Scania) p. 140 pl. i fig. 8 text-figs. 5 a-c, LINDSTRÖM Geol. Foren. Stockh. Förh. 75 2 1953.

Sphaerocoryphe sp. p. 852, SINCLAIR 68.

Sphaerophthalmus alatus (Boeck) p. 75, TJERNVIK 77.

Spinagnostidae Howell 1935 taken to include *Spinagnostus*, *Quadragnostus*, *Pyramopsis* and *Eosagnostus* p. 174, HUPÉ 28.

Spinagnostus semilensis sp. n. Cambrian (Upper) Argentina p. 3 [illustr. 1], *S. pedrosensis* Rusconi 1951 referred to *Lejopyge* p. 6, RUSCONI Bol. paleont. B. Aires No. 27 1953.

Spinagnostus pedrosensis Rusc., *S. semilensis* R. p. 6, RUSCONI 60.

Spinodiscinae Kobayashi 1943 accepted as a subfamily of Eodiscidae p. 169, HUPÉ 28.

Spinodiscus converus Walcott text-fig. 112 (4), HUPÉ 28.

Staurocephalinae subfam. nov. [recte Prantl & Přibyl 1947 as subfam. of Encrinuridae] referred to Cheiruridae and taken to include only *Staurocephalus* Barrande p. 238, considered of family status p. 156, HUPÉ **28**.

Staurocephalus globiceps from Ireland line drawing text-fig. 11 (2), CHARLESWORTH **9**.

"*Staurocephalus*" *globiceps* (Portlock) approval of Begg's 1940 reference to *Sphaerocoryphe* Angelin p. 434, LAMONT **45**.

Stauroholcus Resser 1939 referred to Solenopleurellinae **subfam. n.** p. 193, HUPÉ **28**.

Stenelymus Raymond 1937 a subjective synonym of *Genevievella* Lochman 1936 p. 888, LOCHMAN **48**.

Stenochilina Ulrich 1930 referred to Raymondinidae p. 199, HUPÉ **28**.

Stenocombus Raymond 1937 a subjective synonym of *Bountia* Walcott 1916 p. 888, LOCHMAN **48**.

Stenopilus Raymond 1924 referred to Plethopeltidae p. 188, *S. elongatus* Rasetti text-fig. 107 (4 views), HUPÉ **28**.

Stenopilus Raymond 1924 — spp. from Asia assigned by Kobayashi to *Kingstonia* belong to *S.* p. 891, LOCHMAN **49**.

Stenopilus recorded p. 6, HINTZE **24**.

Stenopilus sp. p. 911, BASS & NORTHROP **4**.

Stephanaspis **gen. n.** error pro *Stephenaspis* **gen. n.** Rasetti 1951, Z.R. 88 for 1951 11 1953 p. 34.

Stephanaspis [recte *Stephenaspis*] Rasetti 1951 referred to Ptarmigania-series of Bathyuriscinae **subfam. n.** p. 185, HUPÉ **28**.

Stephanocare richthofeni Monke text-fig. 125 (8), HUPÉ **28**.

Stephenaspis Rasetti 1951 see *Stephanaspis*.

Stigmametopus [misspelt *Stigmacephalus*] Rasetti 1944 a synonym of *Idiomesus* Raymond 1924 p. 201, HUPÉ **28**.

Stigmaspis hudsonensis Nelson p. 557, *S. similis* Kurtz p. 556, BERG **5**.

Strenuaeva see *Strenueva*.

Strenuella Matthew 1888 [recte 1887] referred to Strenuellinae **subfam. n.** p. 180, HUPÉ **28**.

Strenuella Matthew 1887 emend. discussed p. 231, *S. strenua* (Billings) considered heterogeneous p. 238 text-figs. 56 (1–3), *S. strenua* Lake 1932 (*non* B.) referred *partim* [pl. 21 fig. 6] to *S. lakei* **sp. n.** text-fig. 56 (5) and *partim* [pl. 21 fig. 7] to *S. comleyensis* **sp. n.** text-fig. 56 (7) Cambrian (Lower) Britain (Shropshire) p. 238, *S. salopiensis* Cobbold text-fig. 56 (4), *S. onyx* (R. & E. Richter) tentatively for *Camaraspis o.* R. & E. R. 1940 text-fig. 56 (9), *S. ? spinosa* (C.) which forms a link with *Comluella* **gen. n.** text-fig. 56 (11), *S. rasettii* **sp. n.** p. 237 pl. xi fig. 16 text-fig. 56 (8), *S. howelli* **sp. n.** p. 239 pl. xi fig. 17 text-fig. 56 (6) Cambrian (Lower) Morocco (Anti-Atlas); *S. calceola* Cobbold 1930 a synonym of *S. strenuelloides* (C.) and referred to *Comluella* **gen. n.** text-fig. 56 (15) as is *S. linnarssoni* Kiaer 1916 p. 237, *S.* (*Strenuaeva*) *insecta* R. & E. Richter 1940 type of *Hindermeyeria* **gen. n.** p. 206, *S.* cf. *spinosa* of Neltner 1938 referred [pl. 13 fig. 15] to *? Elrathina* and [pl. 13 figs. 16, 17] to *Micmacca neltneri* **sp. n.**, *S. strenuelloides* of G. & H. Termier 1950 to *? M. neltneri* and *? Kingaspis* (*Kingaspidoides*), *S. strenua* of G. & H. T. 1950 and Neltner & Poctey 1949 to *? K.* (*K.*) *armatus* **sp. n.** p. 286; *S.* cf. *lakei* recorded from Morocco p. 61; *S. calceola* of Gigout 1951 probably an Agraulid p. 75, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Strenuella linnarssoni p. 182 text-fig. 69 (6), *S. primaeva* p. 182, *S.* cf. *p.* p. 243, HOLTEDAHL **25**.

Strenuella pustulata (Cobbold) p. 237, STUBBLEFIELD *in* WHITTARD ET AL. **80**.

Strenuella sp. p. 1061, DRESNAY & HUPÉ **14**.

Strenuellinae Hupé 1952 [recte **subfam. n.**] [? Protolenidae] for *Strenuella* Matthew 1888, *Comluella* and *Pruvostinoides* Hupé [nomina nuda] p. 180, HUPÉ Traité de Paléontologie 3 1953.

Strenuellinae nov. subfam. [Hupé 1953] discussed pp. 213, 231 and taken to include *Strenuella* Matthew, *Comluella* and ? *Pruvostinoides* **genn. n.** p. 155, HUPÉ **29.**

Strenueva [recte *Strenuaeva*] R. & E. Richter 1940 referred tentatively to Hebediscidae p. 168, HUPÉ **28.**

Strenueva [recte *Strenuaeva*] R. & E. Richter 1940 discussed and referred ["probably" p. 206] to Antatlasiidae **fam. n.** p. 209, *Angusteva* **gen. n.** may be a subgenus p. 207, *S. sampelayoi* R. & E. R. thorax (between 12 and 15 segments) described, *S. marocana* **sp. n.** p. 210 pl. vii fig. 12, pl. xi fig. 25 Cambrian (Lower) Morocco (Anti-Atlas); *S. insecta* R. & E. R. type of *Hindermeyeria* **gen. n.** p. 206, *S.* sp. of G. & H. Termier 1950 [pl. 188 fig. 3] referred to *? Antatlasia hollardi* **sp. n.** p. 286, HUPÉ Notes Serv. Min. Maroc No. 103 1953.

Strenueva [recte *Strenuaeva*] R. & E. Richter considered an Eodiscid, *Triangulaspis* Lermontova a subgenus, *S.* (*T.*) *zirarii* nov. sp. [? = *Angusteva zirarii* **sp. n.** quod vide], *S.* (*Arcueva*) [spelt *Arcuevas* in footnote] **subgen. nondescr.**, *S.* (*A.*) *marocana* nov. sp. [?=*S. marocana* **sp. n.** quod vide] p. 43, HUPÉ **30.**

? Strenueva sp. p. 1061, DRESNAY & HUPÉ **14.**

Strettonia Cobbold 1931 referred tentatively to Zacanthoididae, but may belong to Protolenidae p. 183, HUPÉ **28.**

Strettonia Cobbold 1931 referred tentatively to Protolenidae (Myopsoleninae) and may possibly be an immature form of *Collyrolenus* **gen. n.** or allied gen. p. 220, *S. comleyensis* text-fig. 48 (12) line drawing, HUPÉ **29.**

Strigigenalis **gen. n.** [Leiostegiidae] p. 670 for type *S. cassinensis* **sp. n.** (Whittington) U.S.A.(Vermont) with pygidium of *Bolbocephalus ? truncatus* Whitfield 1890 tentatively associated p. 671 pl. lxvii figs. 6–8, pl. lxix figs. 23–25, *S. abdita* **sp. n.** (Ross) Ordovician (Lower) U.S.A. (Utah) for *Platycolpus ?* sp. Ross 1951 p. 671 pl. lxvii figs. 11–12, 16–18, 21–23, 26–27, Undetermined Genus and Species B and C Hintze 1953 may be sp. of *S.* p. 673, WHITTINGTON & ROSS *in* WHITTINGTON J. Paleont. 27 5 1953.

Strigigenalis Whittington & Ross 1953 referred to Lecanopygidae **fam. n.** p. 889, LOCHMAN **49.**

Strotocephalus Resser 1935 referred to Amecephalinae **subfam. n.** p. 192, HUPÉ **28.**

Strotocephalus Resser 1935 accepted as a synonym of *Amecephalus* Walcott 1924, *S. arrojosensis* Lochman 1952 referred to *A.* p. 486, LOCHMAN **47.**

Stygina minor Skjeseth [nom. nud.] p. 68, *S.* sp. p. 93, STØRMER **73.**

Stygina (*Protostygina*) see *Protostygina.*

Styginidae Vogdes 1893 referred to Scutelloidae **superfam. n.** and taken to include *Protostygina*, *Stygina Bronteopsis* and *Raymondaspis* p. 224, HUPÉ **28.**

Styginidae removed from Corynexochoidae to Illaenicae **superfam. n.** p. 649, WHITTINGTON **81.**

Sulcatocephalus **gen. n.** error pro *Sulcocephalus* **gen. n.** Wilson 1948, Z.R. 85 for 1948 11 1950 p. 29.

Sulcocephalus Wilson 1948 referred to Talbotinidae **fam. n.** p. 197, HUPÉ **28.**

Sulcocephalus Wilson 1948 a subjective synonym of *Berkeia* Resser 1937 p. 888, LOCHMAN **48.**

Symphysops armatus Barrande reconstruction text-fig. 92 (3), HUPÉ **28.**

Symphysurina Ulrich 1924 see Ogygiocarinae, *S. woosteri* U. text-fig. 130 (5), HUPÉ **28.**

Symphysurina Ulrich 1924 discussed, *Symphysurinella* and *Symphysuroides* Raymond 1937 and possibly *Giordanella* Bornemann 1891 and *Tsinania* Walcott 1914 considered synonyms p. 230, *S. globocapitella* **sp. n.** p. 232 pl. i figs. 1–9, *S. uncaspicata* **sp. n.** p. 233 pl. ii figs. 1–7, *S. brevispicata* **sp. n.** which may include the pygidium associated by Walcott with *S. cleora* p. 236 pl. iii figs. 9–17, *S.* cf. *S. cleora* (W.) p. 234 pl. ii figs. 8–11 Ordovician (Lower) U.S.A. (Utah and Nevada), *S. elegans* Poulsen 1937 may be synonym of *S. cleora* p. 235, *S.* cf. *S. spicata* W. and *S.* cf. *S. woosteri* W. listed p. 7, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Symphysurina minima Shaw 1951 p. 139, SHAW **65.**

Symphysurina sp. A, *S.* sp. B, *S.* sp. C [spp. undescr.], *S.* ? sp., *S.* sp. undet. p. 911, A. R. PALMER *in* BASS & NORTHROP **4.**

Symphysurinella Raymond 1937 considered a synonym of *Symphysurina* Ulrich 1924 p. 232, HINTZE **24.**

Symphysuroides Raymond 1937 considered a synonym of *Symphysurina* Ulrich 1924 p. 232, HINTZE **24.**

Symphysurus goldfussi Walcott 1884 see *Pseudoolenoides* **gen. n.**

Symphysurus incipiens text-figs. 70 (4, 5), HOLTEDAHL **25.**

Syspacephalus Resser 1936 referred to Antagmidae **fam. n.** p. 192, HUPÉ **28.**

Taenicephalina Rasetti 1945 referred tentatively to Elviniinae p. 206, HUPÉ **28.**

Taenicephalus Ulrich & Resser 1924 description, *T. altus* Nelson 1951 p. 565 pl. lx fig. 10, *T. shumardi* (Hall) 1863 holotype refigured p. 565 pl. lix figs. 11–14, BERG **5.**

Taihungshania Sun 1931—*Miquelina* Thoral 1935 a synonym p. 221, HUPÉ **28.**

Taihungshaninae referred to Asaphidae and taken to include *Taihungshania* and *Asaphelina* p. 221, HUPÉ **28.**

Taishania probably a synonym of *Maladioides* p. 895, LOCHMAN **49.**

Talbotina Lochman 1938 referred to Talbotinidae **fam. n.** p. 197, HUPÉ **28.**

Talbotinidae **fam. n.** [Solenopleuroidae] for *Talbotina* Lochman 1938, *Raaschella*, *Sulcocephalus*, ? *Kyphocephalus*, ? *Pinctus* p. 197, HUPÉ Traité de Paléontologie **3** 1953.

Tangshihella **gen. nondescr.** [Conocoryphidae (Bailiellinae)] for type *Bailiella ulrichi* Resser & Endo p. 194, HUPÉ **28.**

Tasmanocephalus see *Pseudoolenoides* **gen. n.**

Tatonaspis Kobayashi 1935 a subjective synonym of *Macelloura* Resser 1935 p. 887, LOCHMAN **48.**

Taxioura Resser 1939 considered separate from *Ogygopsis* Walcott 1888 p. 185, HUPÉ **28.**

Telaeomarrolithus radiatus (Murchison) p. 194, WILLIAMS **84.**

Telephidae Angelin 1852 referred to Telephoidae and taken to include *Telephus* and ? *Acidophorus* p. 229, HUPÉ **28.**

Telephidae considered probably to have arisen from Komaspidae p. 895, LOCHMAN **49.**

Telephoidae Stubblefield 1950 emend. taken to include Komaspidae, Ellipsocephaloidae [sic], Telephidae and Glaphuridae p. 228, HUPÉ **28.**

Telephus bicuspis p. 58, *T. mobergi* p. 102, *T.* sp. p. 83, STØRMER **73.**

Tellerina leucosia occurrence discussed p. 735, NELSON **51.**

Temnoura Resser & Endo 1937 referred tentatively to Crepicephalinae **subfam. n.** p. 202, HUPÉ **28.**

Terataspis grandis Hall reconstruction text-fig. 98, HUPÉ **28.**

Termierella Hupé [nom. nud.] referred to Protolenidae (Termierellinae) p. 180, *T. latifrons* H. [nom. nud.] text-fig. 118 (3), HUPÉ **28.**

Termierella **gen. n.** [Protolenidae (Termierellinae)] pp. 155, 225 for type *T. latifrons* **sp. n.** [nom. nud. 1952] p. 227 pl. ix fig. 24, pl. x figs. 1–4, text-fig. 53 (1), *T.* (*Termierella*) **subgen. n.** p. 226 including also *T.* (*T.*) *longa* **sp. n.** [nom. nud. 1952] p. 227 pl. x figs. 5–8, text-fig. 64 (4), *T.* (*T.*) *gigantea* **sp. n.** p. 228 text-fig. 54 (line drawing); *T.* (*Breviter-mierella*) **subgen. n.** p. 226 for type *T.* (*B.*) *brevifrons* **sp. n.** [nom. nud. 1952] p. 228 text-fig. 55 (1) Cambrian (Lower) Morocco (Anti-Atlas) including *Lusatiops ribotanus* R. & E. Richter 1948 *partim* [pl. 1 fig. 4] p. 216; *T.* (*Jalonella*) **subgen. n.** pp. 166, 226 for type *T.* (*J.*) *celtiberica* **sp. n.** Cambrian (Lower) Spain for *Lusatiops ribotanus* R. & E. Richter 1948 *partim* [pl. 1 fig. 5] p. 226 text-fig. 55 (2) line drawing, *T.* ? (free cheek) pl. ix fig. 18, *T.* sp. [attrib.] pl. xi fig. 10, *T.* sp. p. 69, Hupé Notes Serv. Min. Maroc No. 103 1953.

Termierella longa Hupé, *T.* cf. *latifrons* H., *T.* (*Jalonella*) *celtiberica* H. p. 1061, Dresnay & Hupé **14.**

Termierellinae Hupé 1952 [recte 1953] subfam. of Protolenidae for *Termierella*, *Pruvostina*, *Bigotinops* and *Pseudolenus* [nomina nuda] p. 179, Hupé **28.**

Termierellinae **subfam. n.** [Protolenidae] pp. 154, 211 for *Bigotinops*, *Pruvostina*, *Ouijjania*, *Termierella* and *Pseudolenus* **genn. n.**, Hupé Notes Serv. Min. Maroc No. 103 1953.

Terranovella Lochman 1938 referred to Genevievellidae **fam. n.** p. 210, Hupé **28.**

"*Terranovella*" *gelasinata* Shaw 1951 p. 139, Shaw **65.**

Tesselacauda aff. *T. depressa* Ross 1951 p. 237 pl. xxi figs. 2–3, Hintze **24.**

Tetralichas Phleger 1936—*Kerakephalichas* P. 1936 a synonym p. 227, Hupé **28.**

Tetraspis [error pro *Tretaspis*] *pedemontanus* **sp. n.** Ordovician (Lower) Argentina (Mendoza) p. 4 text-fig. 4, Rusconi Bol. paleont. B. Aires No. 25 1953.

Thaleops sp. p. 1037, Barnes, Cloud & Duncan **3.**

Theamataspidae **fam. n.** [Scutelloidae] for *Theamataspis* Öpik 1937 p. 224, Hupé Traité de Paléontologie **3** 1953.

Theamataspis Öpik 1937 see Theamataspidae **fam. n.**

Thomsonaspis Deiss 1939 referred to Elrathiellinae **subfam. n.** p. 193, Hupé **28.**

Thoralaspis Hupé [nom. nud.] referred to Protolenidae (Myopsoleninae) p. 180, Hupé **28.**

Thoralaspis **gen. n.** [Protolenidae (Myopsoleninae)] pp. 156, 220 for type *Olenopsis thorali* Cobbold 1931 text-fig. 48 (11) line drawing Cambrian (Lower) France (Hérault), Hupé Notes Serv. Min. Maroc No. 103 1953.

Thysanopeltis from Middle Devonian of Haute-Garonne p. 121, Destombes **13.**

Tingocephalinae **subfam. n.** [Hungaidae] for *Tingocephalus* Sun 1935 p. 213, Hupé Traité de Paléontologie **3** 1953.

Tingocephalus Sun 1935 referred to Tingocephalinae **subfam. n.** p. 213, Hupé **28.**

Tomagnostus Howell 1935 referred to Diplagnostidae p. 172, *T.* glabella (diagrammatic) text-fig. 114 (10), Hupé **28.**

Tomagnostus canotensis p. 6, Rusconi **60.**

Tonkinellidae Reed 1934 considered tentatively a subfamily of Oryctocephalidae, but may belong to Dolichometopidae p. 186, Hupé **28.**

Törnquistia Reed 1896 referred to Törnquistiidae **fam. n.** p. 198, Hupé **28.**

Tornquistia elegans sp. nov. [nom. nud.], *T. papula* sp. nov. [nom. nud.], *T. shlygini* Web. p. 1044, Koroleva **42.**

Törnquistiidae **fam. n.** [Solenopleuroidae] for *Törnquistia* Reed 1896 and *Pyraustocranium* p. 198, Hupé Traité de Paléontologie **3** 1953.

Tostonia Walcott 1924 referred to Maladiinae **subfam. n.** p. 206, HUPÉ **28.**

Tostonia iole (Walcott) 1884 and *T. unisulcata* Raymond 1937 listed as Kainellidae p. 58, KOBAYASHI **40.**

Toxotis pusilla Wall. listed p. 40, WESTERGÅRD **79.**

Tramoria Reed 1899 considered a distinct genus and referred to Kainellidae (Apatokephalinae), *T. punctatus* R. p. 54 pl. iv fig. 10 (line drawing), KOBAYASHI **40.**

Tretaspis see *Tetraspis*.

Tretaspis sections of integuments [after Størmer] pls. lxxxvi-lxxxvii text-fig. 1, JOHNSON **35.**

Tretaspis canadensis **sp. n.** [nondescr. 1952] Ordovician (Middle) Canada (Quebec) p. 203 text-figs. 17–20, 22 *pars*, *T. reticulata* Ruedemann 1901 *partim* [*non* pl. 3 fig. 11 pygidium probably of *Lonchodomas*] discussed and pygidium tentatively associated p. 210 text-figs. 21, 22 *pars*, 23, *T. kiaeri* Störmer 1930 discussed p. 213, "*T. diademata*" p. 215 text-fig. 24, STÄUBLE Nat. canad. **80** 8–9 1953.

Tretaspis cerioides and *T. c. angelini* p. 68, *T. kiaeri* and *T. seticornis* p. 87, *T.* sp. p. 93, STØRMER **73.**

Tretaspis ceryx Lamont var. revised identification of *Trinucleus concentricus* Baily 1869 (*non* Eaton) p. 433, *T. kjaeri* Størmer revised identification of *Trin ? c.* Reed 1896 (*non* E.), *T.* aff. *k.* from Scotland may require a new gen., *T. seticornis* records from Kildare and Wexford discounted p. 434, LAMONT **45.**

Tretaspis cf. *kjaeri* Størmer p. 195, WILLIAMS **84.**

Tretaspis latilimba text-figs. 76 (3, 4), HOLTEDAHL **25.**

Tretaspis seticornis (His.) p. 186, *T.* sp. p. 187, JAANUSSON & MARTNA **34.**

Triangulaspis Lermontova considered a subgenus of *Strenueva* [quod vide] p. 43, HUPÉ **30.**

Triarthridae see *Porterfieldia* **gen. n.**

Triarthrinae (Ulrich 1930) taken to include *Protopeltura*, *Peltura*, *Westergårdites*, *Acerocare*, *Cyclognathus*, *Boeckia* and *Triathrus* p. 207, HUPÉ **28.**

Triarthropsis Ulrich 1930 referred tentatively to Raymondinidae p. 199, HUPÉ **28.**

Triarthropsis pampanus **sp. n.** Cambrian (Upper) Argentina p. 3 text-fig. 6, *T. australis* for ? *Parabolina a.* Rusconi, RUSCONI Bol. paleont. B. Aires No. 28 1953.

Triarthrus caecigenus Raymond 1920 type of *Porterfieldia* **gen. n.** p. 8, COOPER **12.**

Triarthrus eatoni Hall p. 58 fig. 65 (5), KAY **36.**

Triarthrus spinosus p. 847, SINCLAIR **68.**

Triarthrus sp. p. 103, STØRMER **73.**

Triarthrus sp. p. 242, WHITTARD *in* WHITTARD ET AL. **80.**

Tricrepicephalus Kobayashi 1935 referred to Crepicephalinae **subfam. n.** p. 202, HUPÉ **28.**

Trigonocerca Ross 1951 referred to Asaphinae [quod vide] p. 223, HUPÉ **28.**

Trigonocerca typica Ross p. 238 pl. xi figs. 6–11, *T. t. piochensis* **var. n.** Ordovician (Lower) U.S.A. (Nevada) p. 238 pl. xi figs. 12–18, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Trigonocercella **gen. n.** [no family assigned, similar to *Trigonocerca*] p. 239 for type *T. acuta* **sp. n.** Ordovician (Lower) U.S.A. (Utah) p. 239 pl. xi figs. 1–5, HINTZE Bull. Utah geol. min. Surv. **48** 1953.

Trigryops Kobayashi 1940 a synonym of *Dionide* Barrande 1847 p. 242, HUPÉ **28.**

Trilobites cornigerus Schlotheim 1820 p. 393 and *T. acuminatus* Boeck 1838 p. 394 [may prove identical with *Asaphus striatus* B.] considered nomina dubia, JAANUSSON **32.**

Trimerinae **subfam. n.** [Homalonotidae] for *Trimerus* Green, *Burmeisteria* Salter and *Dipleura* Green p. 233, HUPÉ Traité de Paléontologie **3** 1953.

Trimerus Green 1832 referred to Homalonotidae (Trimerinae) **subfam. n.** p. 233, *T. delphinocephalus* G. text-fig. 136, HUPÉ **28.**

Trinodidae Howell 1935 accepted for *Trinodus* McCoy [erroneously ascribed to Howell] p. 174, HUPÉ **28.**

Trinodus cf. *agnostiformis* McCoy p. 131, LINDSTRÖM **46.**

Trinodus elspethi (Raymond) for *Arthrorhachis e.* R. with synonym *Agnostus* sp. Butts 1926 p. 7 pl. i figs. 1–12, COOPER **12.**

Trinodus sp. p. 187, JAANUSSON & MARTNA **34.**

Trinucleidae Emmrich 1845 [sic] referred to Trinucleoidae, classified following Whittington 1941 into Trinucleinae, Tretaspinae, Cryptolithinae and Novaspinae; Cryptolithidae Angelin 1854 a synonym p. 242, HUPÉ **28.**

Trinucleoidae (Richter 1932) subdivided on basis of glabellar shape and number of thoracic segments into (a) Hypotheticidae, Loganopeltidae, Šarkiaiidae [sic] **famm. n.**, Harpididae, Harpidae, Entomaspidae; (b) Myindidae **fam. n.**, Ityophoridae, Shumardiidae, Endymioniidae, Alsataspidae, Raphiophoridae, Dionididae, Trinucleidae p. 239, HUPÉ **28.**

Trinucleoides Raymond 1917 referred tentatively to Dionididae p. 242, HUPÉ **28.**

Trinucleus concentricus from Ireland line drawing text-fig. 11 (1), CHARLESWORTH **9.**

Trinucleus concentricus records in Ireland discussed, referred to *Eirelithus thersites* (Salter), *Cryptolithus elongatus* (Portlock) or *C. portlockii* (S.) or vars.; *T. c.* Baily 1869 (*non* Eaton) from Wicklow referred to *Tretaspis ceryx* Lamont var. p. 433, *T. ? c.* Reed 1896 (*non* E.) from Kildare referred [*fide* N. Spjeldnaes] to *Tretaspis kjaeri* Størmer p. 434, LAMONT **45.**

Trinucleus foveolatus text-fig. 73 (23), *T. forosi* text-fig. 91 *pars*, HOLTEDAHL **25,**

Trinucleus foveolatus and *T.* aff. *foveolatus-bronni* p. 58, *T. bronni* (with synonym *T. coscinorhinus*) p. 61, *T. hibernicus bröggeri* p. 62, *T.* cf. *h. b.* p. 72, *T.* aff. *h.* p. 80, STØRMER **73.**

Trinucleus murchisoni Salter p. 239, WHITTARD *in* WHITTARD ET AL. **80.**

Trinucleus pongerardi Rouault—bifurcation of genal spines in 40% of individuals may be a mutant lethal character p. 127 text-fig. 91, HUPÉ **28.**

Triplagnostus Howell 1935 referred to Hastagnostidae p. 173, *T.* glabella (diagrammatic) text-fig. 114 (5), HUPÉ **28.**

Triplagnostus pedrensis Rusc., *T. planus* R. p. 6, RUSCONI **60.**

Trochuridae Phleger 1936 referred to Lichadoidae and classified after Phleger into Dicranopeltinae, Platylichadinae, Trochurinae and Euarginae p. 227, HUPÉ **28.**

Trochuroidae [? **superfam. nondescr.**] possibly error pro Cheiruroidae p. 150, HUPÉ **28.**

Trochurus Beyrich 1845—*Corydocephalus* Hawle & Corda 1847 and *Plusiarges* Gürich 1901 synonyms p. 228, HUPÉ **28.**

Tropidocoryphidae (Přibyl 1945 emend.) considered of family status and divided into Tropidocoryphinae, Astycoryphinae and Denemarkiinae p. 217, HUPÉ **28.**

Tropidocoryphinae Přibyl 1945 emend. restricted to include only *Tropidocoryphe* and ? *Carbonocoryphe* p. 217; see also Astycoryphinae and Denemarkiinae **subfamm. n.**, HUPÉ **28.**

Tsinania Walcott 1914 possibly synonymous with *Symphysurina* Ulrich 1924 p. 231, HINTZE **24.**

Tsinania canens (Walcott) text-fig. 124 (4), HUPÉ **28.**

Tsinaniidae Kobayashi 1935 referred to Asaphiscoidae **superfam. n.** and taken to include *Tsinania*, *Dictya* and *Dictyella* p. 202, HUPÉ **28,**

Typhloniscus Salter 1856 may belong to Phacopidae (Calmoniinae) p. 236 or to Cheiruridae (Areiinae) p. 238, HUPÉ **28.**

Typhloproetus Richter 1913 referred to Cyrtosymbolinae **subfam. n.** p. 217, *T. microdiscus* Frech text-fig. 128 (5), HUPÉ **28.**

Typhloproetus aequalis Weber 1937 (*non* Meyer) referred to *Phillibole* (*Liobole*) *weberi* **sp. n.**, *T. a.* var. *megalopthalma* W. raised to specific rank p. 218, PŘIBYL **55.**

Typhloproetus subcarinthiacus Richter p. 614, PILLET **54.**

Ucebia Walcott 1925 a subjective synonym of *Kingstonia* W. 1925 p. 886, LOCHMAN **48.**

Ullaspis Westergård 1948 referred tentatively to Maladiinae **subfam. n.** p. 206, HUPÉ **28.**

Ullaspis conifrons Wgård listed p. 38, WESTERGÅRD **79.**

Ulrichaspis Rasetti 1945 referred tentatively to Aulacopleurinae p. 208, tentatively to Glyptometopidae **fam. n.** p. 198, HUPÉ **28.**

Uncaspis Kobayashi 1935 referred to Crepicephalinae **subfam. n.** p. 202, HUPÉ **28.**

Ungaia [recte *Hungaia*] *peladense* **sp. n.** Cambrian (Upper) Argentina (Mendoza) p. 8 [unillustr.], RUSCONI Bol. paleont. B. Aires No. 25 1953.

Unguliproetus see *Proetus*.

Uromystrum **gen. n.** [Bathyuridae] for type *Bathyurellus validus* Billings 1865 Ordovician Newfoundland, *U. validum* (B.) 1865 lectotype selected and figured, and *B. fraternus* B. (tentatively) and *B. f.* of Raymond 1925 (refigured) considered synonyms p. 658 pl. lxvii figs. 1–5, 10, text-fig. 1A (reconstruction), *U. brevispinum* (R.), *U. minor* (R.) and *U. affinis* (Poulsen) so referred p. 660, WHITTINGTON J. Paleont. 27 5 1953.

Utiadae [sic] (Kobayashi 1935 emend.) referred to Utioidae **superfam. n.** and taken to include ? *Inouyops*, *Lorenzella*, *Inouyia*, *Utia*, *Pseudosalteria*, *Phoreotropis*, *Zacompsus*, *Idiomesus* p. 200, HUPÉ **28.**

Utioidae **superfam. n.** for Utiadae, ? Emmrichellidae, Liostracinidae, Pilgrimiidae, Cedariidae and Norwoodiidae p. 199, HUPÉ Traité de Paléontologie 3 1953.

Vanuxemella Walcott 1916 referred to Dolichometopidae (Vanuxemellinae) **subfam. n.** p. 185, HUPÉ **28.**

Vanuxemellinae **subfam. n.** [Dolichometopidae] for *Vanuxemella* Walcott 1916 p. 185, HUPÉ Traité de Paléontologie 3 1953.

Vogdesia Raymond 1910 see Asaphinae.

Wanneria Walcott 1910 referred to Wanneriinae **subfam. n.** p. 175, HUPÉ **28.**

Wanneria halli (after Walcott) text-fig. 13.30 A, *W. walcottana* text-fig. 13.35 A, SHROCK & TWENHOFEL **66.**

Wanneria jacqueti Neltner & Poctey 1949 restr. [pl. 6 fig. 5] type of *Neltneria* **gen. n.** [quod vide] p. 133 holotype refigured pl. iv fig. 1; but sp. unrestricted [pl. 6 figs. 1–4 on p. 286] referred to *Bondonella typica* **gen. et sp. n.** p. 136, *W. j.* of G. & H. Termier 1950 *partim* [pl. 186 fig. 21] also to ? *B. typica* p. 286, HUPÉ **29.**

Wanneriinae Hupé 1952 [recte **subfam. n.**] [Olenellidae] for *Wanneria* Walcott 1910 and *Esmeraldina* Resser 1938 p. 175, HUPÉ Traité de Paléontologie 3 1953.

Warburgaspis see *Proetus*.

Warburgaspis Přibyl 1945 considered of generic status and referred to Proetidellinae **subfam. n.** p. 217, HUPÉ **28.**

Warburgella Reed 1931 may belong to Proetidae (Proetidellinae) or to Tropidocoryphidae (Denemarkiinae) p. 217, HUPÉ **28.**

Weberides Reed 1942 discussed p. 218, *W. mucronatus* (McCoy 1844) with synonyms vars. *subcarinata* & *vasta* Schwarzbach 1936 and (probably) vars. *traquairi* & *lata* Reed 1942 p. 219 pl. i fig. 8, pl. ii figs. 4–6, *W. mládeki mládeki* (Smetana 1916) with synonyms *Phillipsia latilimbata* and var. *torus* Schwarzbach 1936 p. 221 pl. ii fig. 7, *W. m. cuneiformis*

(Schwarzbach 1936) with probable synonym var. *insolita* Schw. p. 223, *W. sudeticus* (Patteisky 1930) nov. emend. for *Griffithides s.* P. [which was suggested tentatively by P. for his *G.* cf. *leei* (*non* Woodward)] p. 224 pl. i fig. 11 ; *W. kumpani* for *Cyphinium k.* Weber 1933 p. 226, *W.* n. sp. [undescr.] pl. ii fig. 1, PŘIBYL **55.**

Wedekindia Sun 1935 referred to Prosaukiinae **subfam. n.** p. 215, HUPÉ **28.**

Weeksina Resser 1935 referred to Hystricuridae **fam. n.** p. 198, HUPÉ **28.**

Welleraspis Kobayashi 1935 referred tentatively to Heterocaryoninae **subfam. n.** p. 195, HUPÉ **28.**

Welleraspis — distinction from *Lonchocephalus* considered subject to some doubt, *W. jerseyensis* (Weller) congeneric if not conspecific with *L. waddlei* Tasch and *L. swartzi* T. p. 279, WILSON [Z.R. **90** 11 title **119**].

Welleraspis considered distinct from *Lonchocephalus*, *W. jerseyensis* (Weller) measurements of cotypes given, considered not congeneric with *L. swartzi* Tasch and *L. waddlei* T. p. 746 text-figs. 1 (diagrammatic), 2c (line drawing), TASCH **75.**

Westergårdites Troedsson 1937 referred to Triarthrinae p. 207, HUPÉ **28.**

Westonaspis Rasetti 1945 referred to Pilgrimiidae **fam. n.** p. 201, HUPÉ **28.**

Weymouthiidae Kobayashi 1943 considered to include *Delgadoia* Vogdes 1917, *Alemtjoia* Delgado 1904 [recte *Alemtejoia* Kobayashi 1943] and *Weymouthia* Raymond 1913 p. 168, HUPÉ **28.**

Whitfieldina Resser 1937 a synonym of *Norwoodia* Walcott 1916 p. 201, HUPÉ **28.**

Wilbernia expansa Frederickson, *W. halli* Resser, *W. edwardsi* (R.) p. 556, BERG **5.**

Wuhuia Kobayashi 1933 referred to Conokephalinidae p. 214, HUPÉ **28.**

Xenasaphus **gen. n.** [Asaphidae] p. 459 for type *Asaphus devexus* Eichwald 1840 text-fig. 15 (reconstruction after Schmidt), *A. d. applanata* Schmidt 1901 also referred to *X.* p. 460 Ordovician Esthonia and Russia, JAANUSSON Ark. Min. **1** 14 1953.

Xenocheilos Wilson 1951 [recte 1949] referred to Pilgrimiidae **fam. n.** p. 201, HUPÉ **28.**

Xenostegium Walcott 1924 see Ogygiocarinae, *Macropyge* Stubblefield may be related to *X.* p. 222, HUPÉ **28.**

Xenostegium Walcott 1925 [sic]—*Dictyella* Kobayashi 1933 a subjective synonym p. 886, LOCHMAN **48.**

Xenostegium franklinense Ross p. 240 pl. v figs. 13–18, *X.* cf. *X. acuminiferentis* (R.) for *Bellefontia a.* R. p. 241 pl. v figs. 19–24 ; "*X. taurus*" Ross probably not conspecific or congeneric with *X. t.* Walcott, *X. ? sulcatum* W. and *X. ? eudocia* W. (latter referred to *Asaphellus ?* p. 136) excluded from *Kobayashia* Harrington p. 135, HINTZE **24.**

Xiphogonium Hawle & Corda 1847 considered of generic status p. 216, HUPÉ **28.**

Xyphogonium [recte *Xiphogonium*] Hawle & Corda 1847 considered a subgenus of *Cornuproetus* R. & E. Richter 1919 p. 598, PILLET **54.**

Xystridurinae see *Gigoutella* **gen. n.**

Xystridurinae Whitehouse 1939 taken to include *Xystridura* W. 1939 and *Gigoutella* Hupé [nom. nud.] p. 181, HUPÉ **28.**

Yabeia Resser & Endo 1937 referred to Solenopariidae **fam. n.** p. 195, HUPÉ **28.**

Yinites Lu 1946 referred to Yinitidae **fam. n.** p. 177 footnote, HUPÉ **28.**

Yinitidae **fam. n.** erected provisionally to include *Yinites* Lu 1946 and *Labradoria* Resser 1936, considered close to Neoredlichiidae **fam. n.** p. 177 footnote, HUPÉ Traité de Paléontologie **3** 1953.

Yokuseniidae (Kobayashi 1935) considered of family status and referred to Parasolenopleuroidae **superfam. n.** p. 189, HUPÉ **28.**

Youngia recorded p. 28, LAMONT **44.**

Yukonaspis Kobayashi 1936 a subjective synonym of *Macelloura* Resser 1935 p. 887, LOCHMAN **48.**

Yunnanocephalidae **fam. n.** [Parasolenopleuroidae] for *Yunnanocephalus* Kobayashi 1936 p. 188, HUPÉ Traité de Paléontologie 3 1953.

Yunnanocephalus Kobayashi 1936 referred to Yunnanocephalidae **fam. n.**, *Pseudoptychoparia* Ting 1936 a synonym p. 188, HUPÉ **28**

Yunnanocephalus Kobayashi 1936 —*Pseudoptychoparia* Ting 1936 a synonym, *Y. yunnanensis* (Mansuy) holotype refigured to show facial suture p. 140 text-fig. 29 (line drawing); relations of *Y.* to *Daguinaspis* **gen. n.** p. 283, HUPÉ **29.**

Zacanthoididae Swinnerton 1915 discussed and taken to include *Zacanthopsis*, *Prozacanthoides*, *Zacanthoides* and ? *Strettonia* p. 183, HUPÉ **28.**

Zacanthopsis Resser 1938 referred to Zacanthoididae p. 183, HUPÉ **28.**

Zacompsus Raymond 1924 referred to Utiadae p. 200, HUPÉ **28.**

Gen. et sp. ind. p. 670 pl. lxviii figs. 30, 32, WHITTINGTON **81.**

Gen. et sp. indet. pl. x fig. 23, HUPÉ **29.**

Genus undet. p. 911, BASS & NORTHROP **4.**

New genus A [undescr.], New genus B [undescr.] aff. *Phoreotropis* Raymond, New genus A ? p. 911, PALMER *in* BASS & NORTHROP **4.**

Pygidium No. 3 new assignment of *Holcacephalus* (*Hardyoides*) *glabrus* Shaw 1951 *partim* (pl. 24 figs. 4, 5) p. 145, SHAW **65.**

Trilobites, gen. et sp. indet. p. 75, HEDE **23.**

Trilobites [indet.] p. 127 pl. xii fig. 1, MORENO CARDONA & LINARES **50.**

Unassigned pygidia [undescr.] pl. xv figs. 18, 19, HINTZE **24.**

Undetermined Genus and Species A p. 241 pl. xiii figs. 5–8 Ordovician (Lower) U.S.A. (Utah), HINTZE **24.**

Undetermined Genus and Species B (may include more than one sp.) p. 242 pl. ix fig. 18, pl. xiii figs. 13–17 Ordovician (Lower) U.S.A. (Utah), HINTZE **24.**

Undetermined Genus and Species C p. 243 pl. ix figs. 13–15 Ordovician (Lower) U.S.A. (Utah), HINTZE **24.**

Undetermined Genus and Species B and C Hintze 1953 may be sp. of *Strigigenalis* **gen. n.** p. 673, WHITTINGTON **81.**

Undetermined genera and spp. [undescr.] pl. xix figs. 11, 14, 15; figs. 12, 13; fig. 16 [compared with *Dicantaspis* recte *Diacanthaspis*]; pl. xxi figs. 6, 7, HINTZE **24.**

Undetermined pygidia [undescr.] pl. viii figs. 11, 12, 13, pl. ix figs. 9, 10, 16, pl. xx figs. 14, 16, HINTZE **24.**

Unidentified fragment p. 911, BASS & NORTHROP **4.**

Unidentified protaspid hypostome p. 645 pl. lxiii figs. 21, 22, ROSS **59.**

Unidentified pygidium p. 642 pl. lxiii fig. 26, ROSS **59.**